

09/719111

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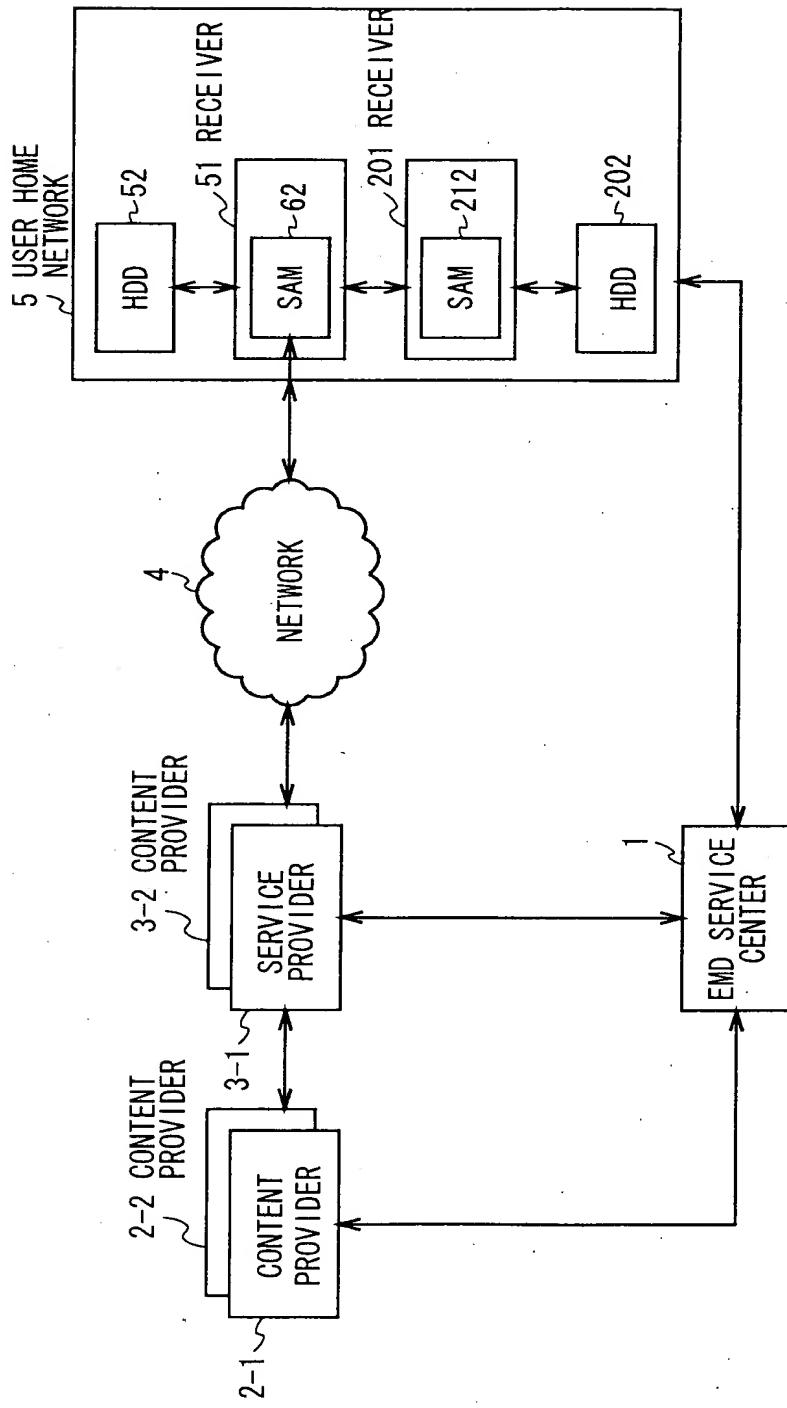


FIG. 1

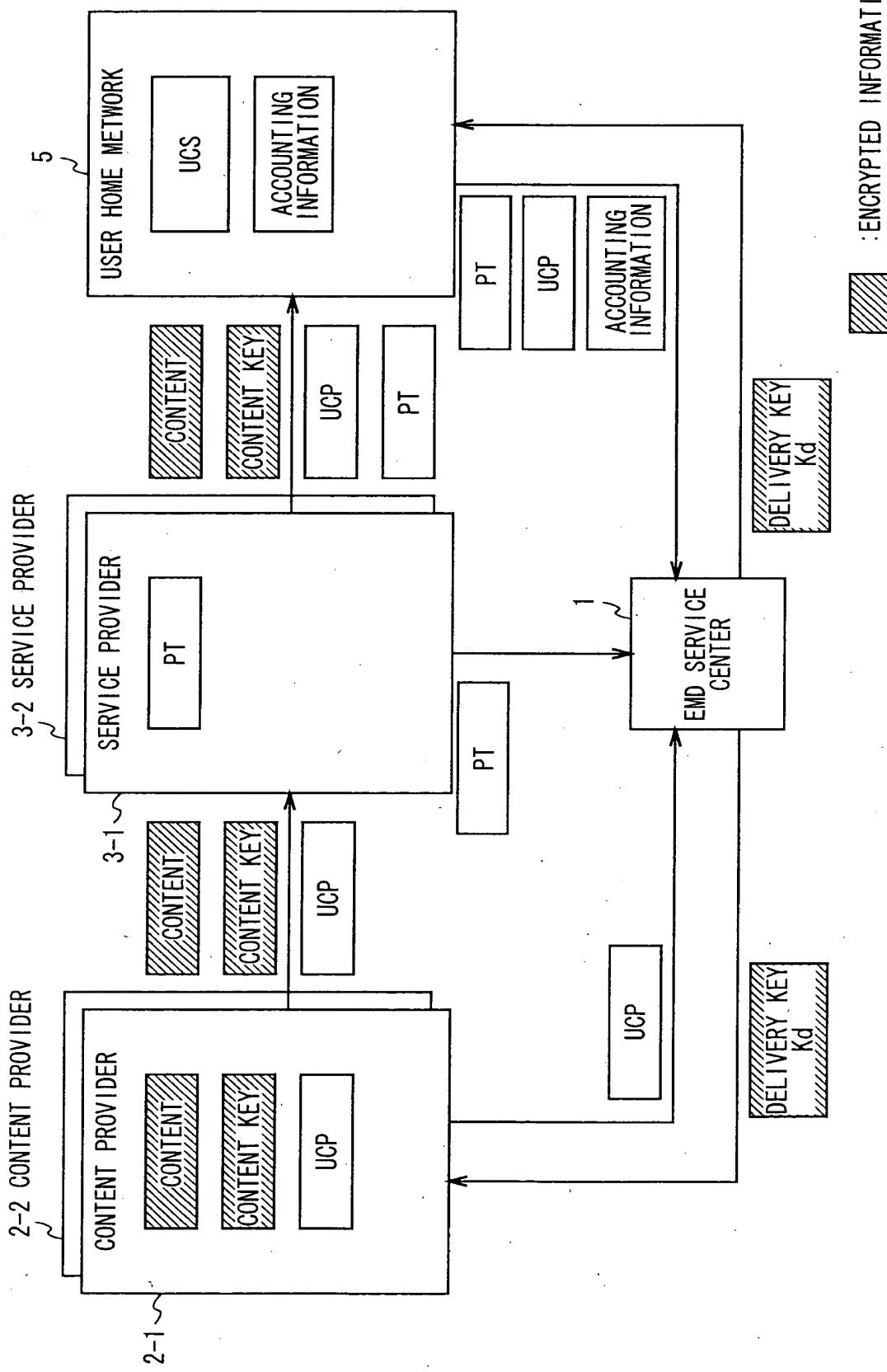
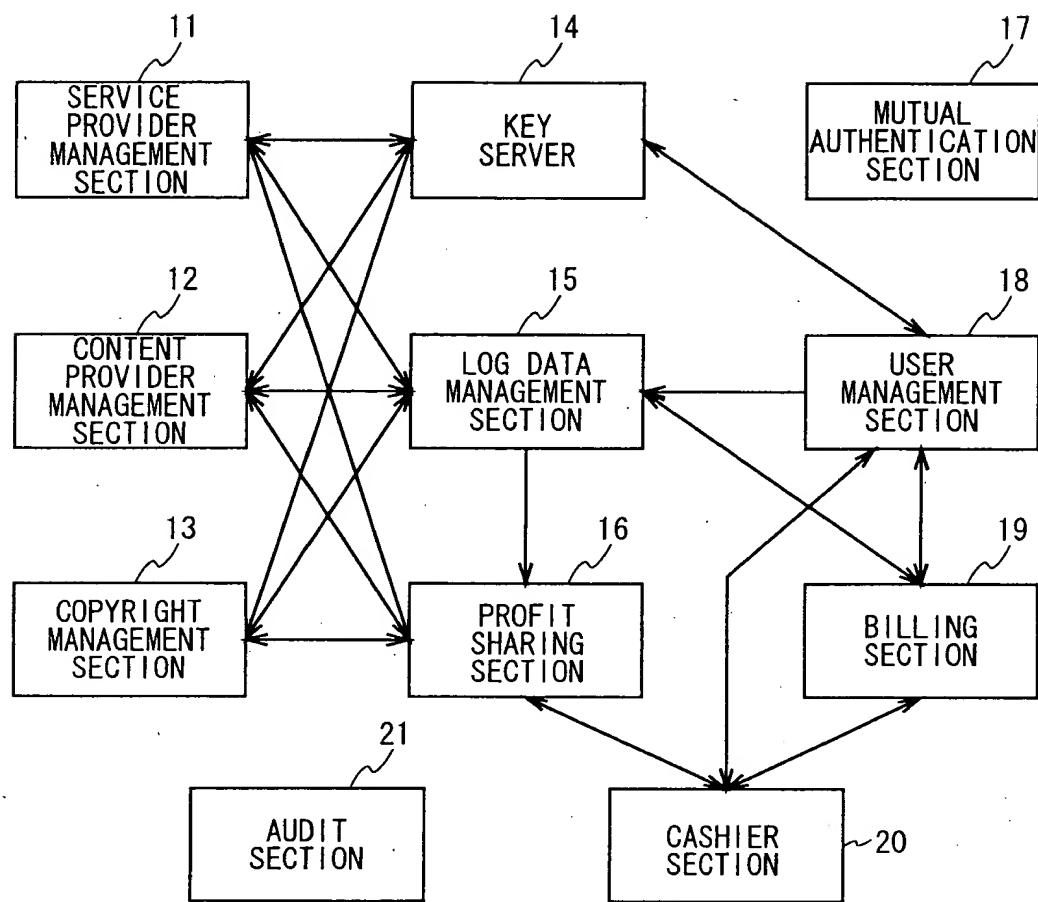


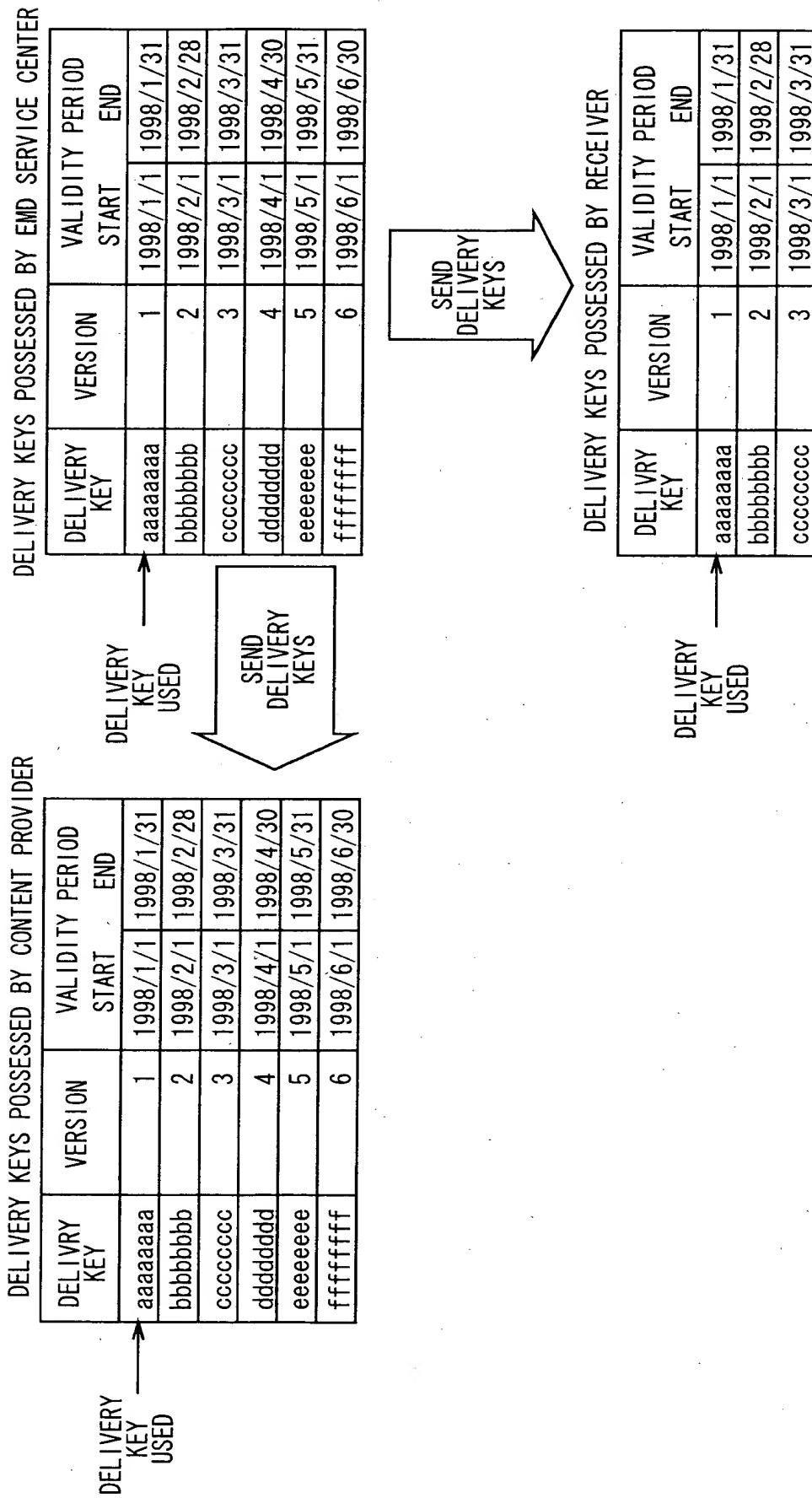
FIG. 2



EMD SEVICE CENTER 1

FIG. 3

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DOCUMENT TTET 260

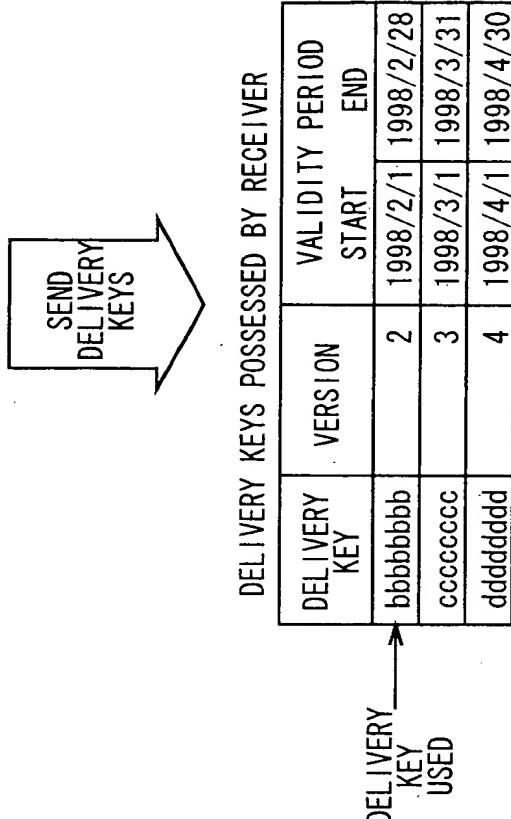
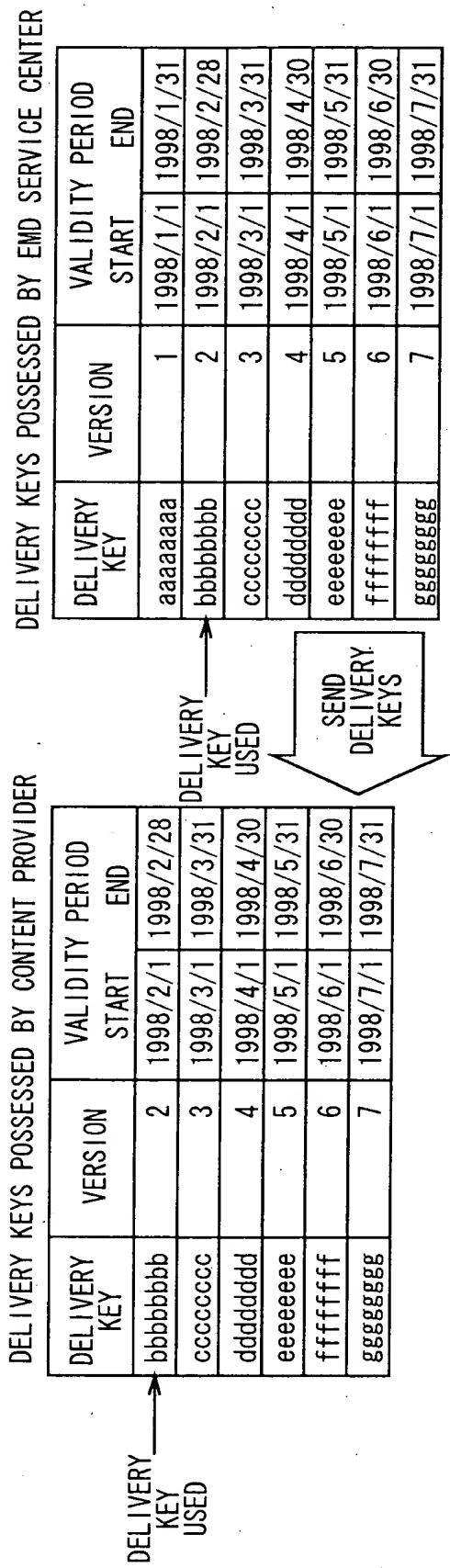


FIG. 5

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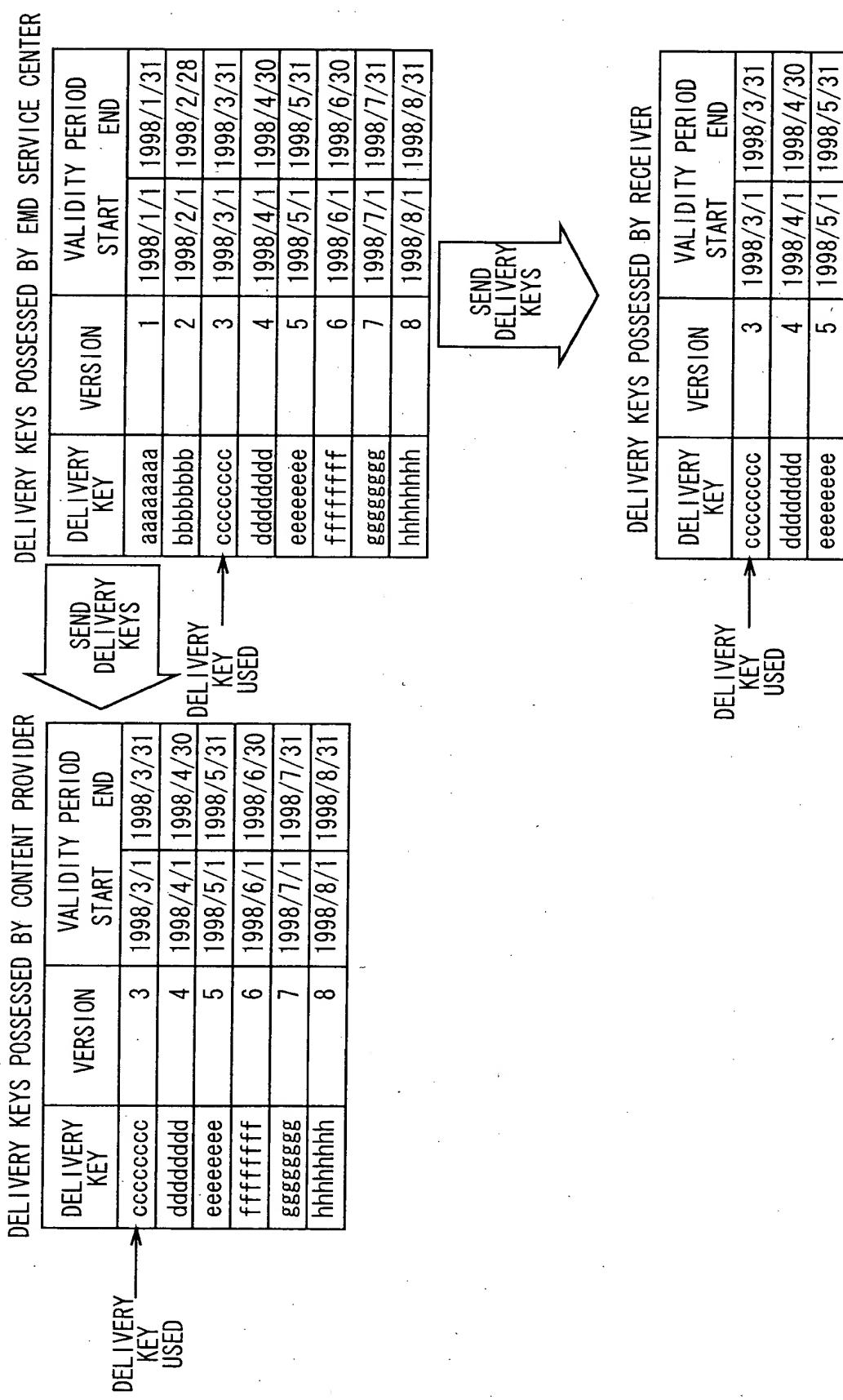


FIG. 6

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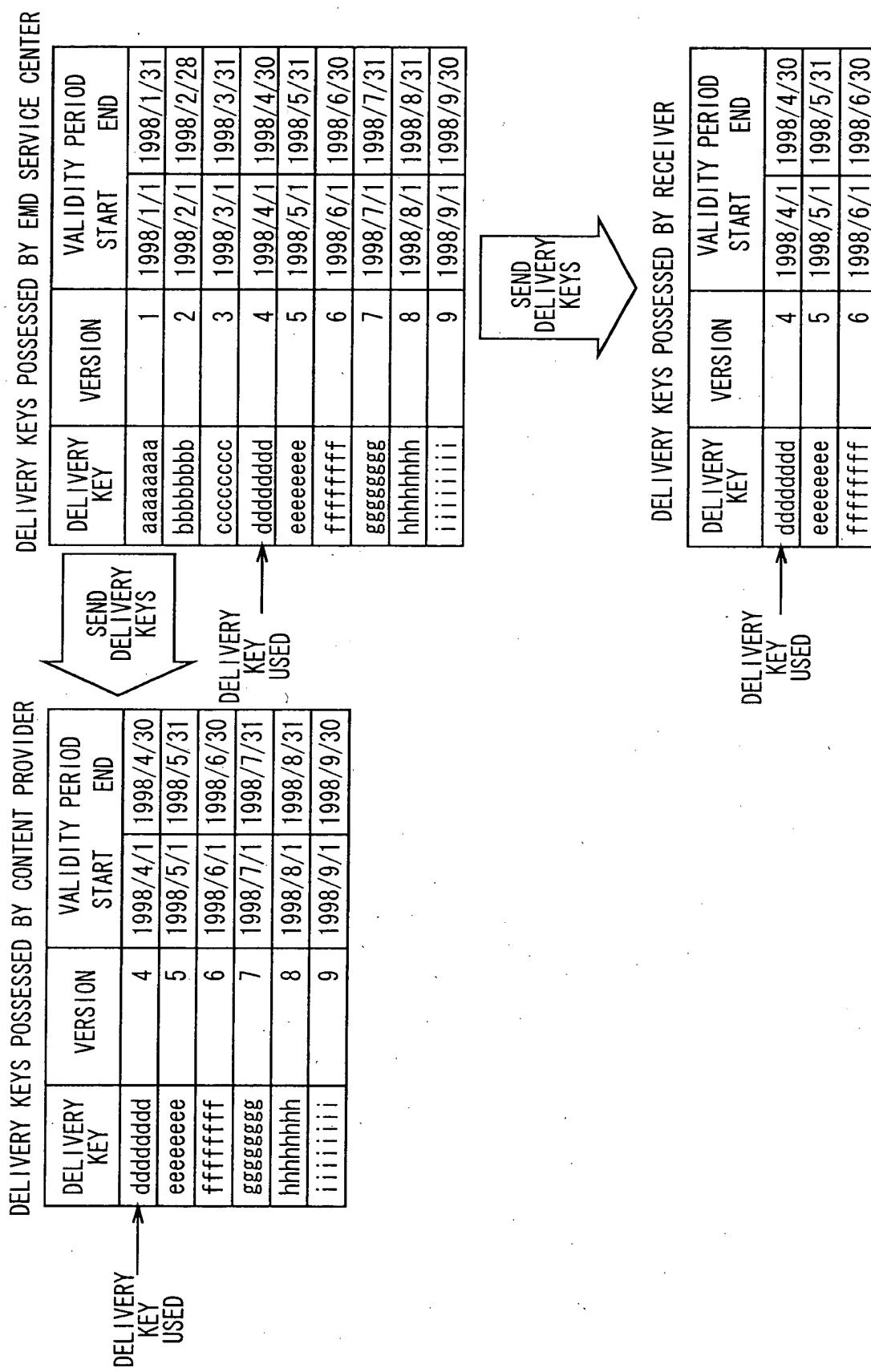


FIG. 7

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DELIVERY KEYS	VERSION	VALIDITY PERIOD	
		START	END
aaaaaaaaaa	1	1998/1/1	1998/1/31

TEMPORARY DELIVERY KEYS Kd

FIG. 8

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SAM ID	ID OF SAM62	ID OF SAM212
EQUIPMENT NUMBER	EQUIPMENT NUMBER (100) OF RECEIVERS 51	EQUIPMENT NUMBER (100) OF RECEIVERS 201
SETTLEMENT ID	SETTLEMENT NUMBER	SETTLEMENT NUMBER
ACCOUNT-SETTLING USER INFORMATION	NAME	NAME OF USER F
	ADDRESS	ADDRESS OF USER F
	PHONE NUMBER	PHONE NUMBER OF USER F
	SETTLEMENT INSTITUTION INFORMATION	SETTLEMENT INSTITUTION INFORMATION OF USER F
	DATE OF BIRTH	DATE OF BIRTH OF USER F
	AGE	AGE OF USER F
	SEX	SEX OF USER F (MALE)
	USER ID	USER ID OF USER F
	PASSWORD	PASSWORD OF USER F
SUBORDINATE USER INFORMATION	NAME	
	ADDRESS	
	PHONE NUMBER	
	DATE OF BIRTH	
	SEX	
	USER ID	
	PASSWORD	
...
USE POINT INFORMATION	USE POINT INFORMATION OF RECEIVERS 51	USE POINT INFORMATION OF RECEIVERS 201

SYSTEM REGISTRATION INFORMATION

FIG. 9

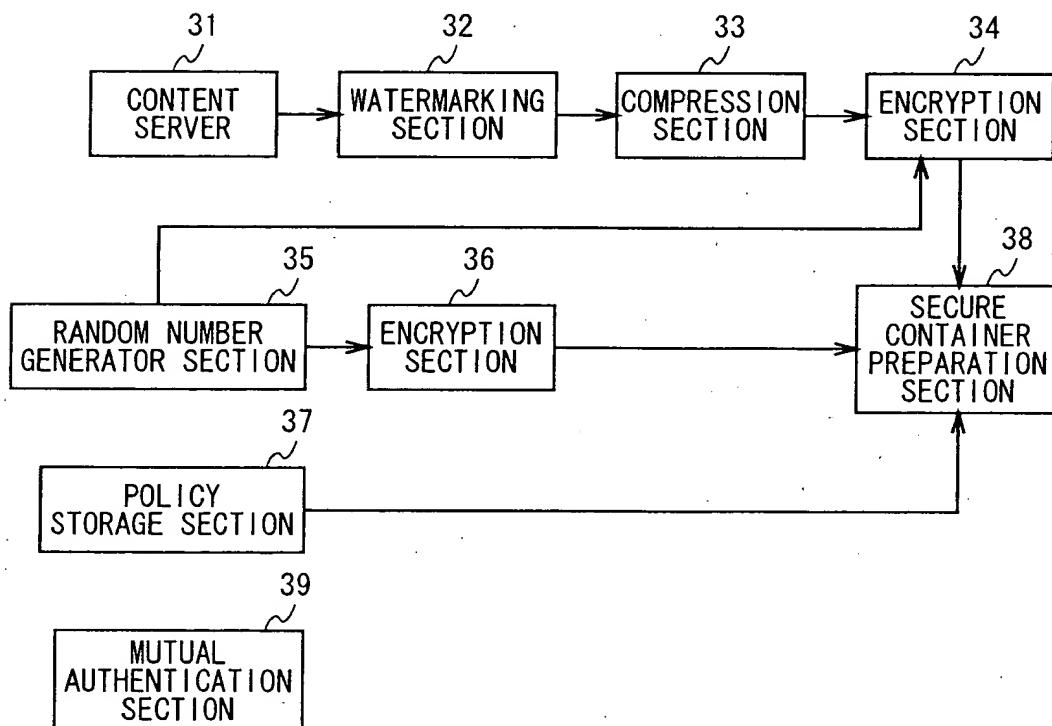
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USER	PROVIDER	USE POINT
ACCOUNT-SETTLING USER	CONTENT PROVIDER2-1	222POINTS
	CONTENT PROVIDER2-2	123POINTS
	SERVICE PROVIDER3-1	345POINTS
	SERVICE PROVIDER3-2	0POINT

USE POINT INFORMATION

FIG. 10

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CONTENT PROVIDER 2-1

FIG. 11

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CONTENT ID	ID OF CONTENT A	CONTENT ID	ID OF CONTENT A
CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2-1	CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2-1
UCP ID	ID OF UCPA	UCP ID	ID OF UCPB
UCP VALIDITY	VALIDITY PERIOD OF UCPA	UCP ID	ID OF UCPB
USAGE CONDITIONS 10	USER CONDITIONS 10 EQUIPMENT CONDITIONS 10	VALIDITY PERIOD OF UCPB	VALIDITY PERIOD OF UCPB
USAGE DETAILS 11	NO CONDITION CONDITIONS 10 ID 11 TYPE 11 PARAMETER 11 CONTROL TRANSFER PERMISSION INFORMATION 11	USAGE DETAILS 20 ID OF USAGE DETAILS 11 PURCHASE AND REPRODUCE X X X X X X X X X X X X ID 12 TYPE 12 PARAMETER 12 CONTROL TRANSFER PERMISSION INFORMATION 12	USER CONDITIONS 20 EQUIPMENT CONDITIONS 20 ID 21 TYPE 21 PARAMETER 21 CONTROL TRANSFER PERMISSION INFORMATION 21
USAGE DETAILS 12	NO CONDITION CONDITIONS 10 ID 11 TYPE 11 PARAMETER 11 CONTROL TRANSFER PERMISSION INFORMATION 11	USAGE DETAILS 21 ID OF USAGE DETAILS 12 FIRST-GENERATION DUPLICATE X X X X X X X X NOT PERMITTED NOT PERMITTED NOT PERMITTED NOT PERMITTED	EQUIPMENT CONDITIONS 20 ID OF USAGE DETAILS 21 REPRODUCTION FOUR TIMES NOT PERMITTED NOT PERMITTED NOT PERMITTED NOT PERMITTED
USAGE DETAILS 13	NO CONDITION CONDITIONS 10 ID 11 TYPE 11 PARAMETER 11 CONTROL TRANSFER PERMISSION INFORMATION 11	USAGE DETAILS 22 ID OF USAGE DETAILS 13 LIMITED-TIME REPRODUCTION X X X X X X X X NOT PERMITTED NOT PERMITTED NOT PERMITTED	USER CONDITIONS 22 ID OF USAGE DETAILS 22 DUPLICATES TWO TIMES NOT PERMITTED NOT PERMITTED NOT PERMITTED
USAGE DETAILS 14	NO CONDITION CONDITIONS 10 ID 11 TYPE 11 PARAMETER 14 CONTROL TRANSFER PERMISSION INFORMATION 14	USAGE DETAILS 22 ID OF USAGE DETAILS 14 DUPLICATES FIVE TIMES NOT PERMITTED	NOT PERMITTED

CONTENT ID	ID OF CONTENT A	CONTENT ID	ID OF CONTENT A
CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2-1	CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2-1
UCP ID	ID OF UCPA	UCP ID	ID OF UCPB
UCP VALIDITY	VALIDITY PERIOD OF UCPA	UCP ID	ID OF UCPB
USAGE CONDITIONS 10	USER CONDITIONS 10 EQUIPMENT CONDITIONS 10	VALIDITY PERIOD OF UCPB	VALIDITY PERIOD OF UCPB
USAGE DETAILS 11	NO CONDITION CONDITIONS 10 ID 11 TYPE 11 PARAMETER 11 CONTROL TRANSFER PERMISSION INFORMATION 11	USAGE DETAILS 20 ID OF USAGE DETAILS 11 PURCHASE AND REPRODUCE X X X X X X X X X X X X ID 12 TYPE 12 PARAMETER 12 CONTROL TRANSFER PERMISSION INFORMATION 12	USER CONDITIONS 20 EQUIPMENT CONDITIONS 20 ID OF USAGE DETAILS 21 REPRODUCTION FOUR TIMES NOT PERMITTED NOT PERMITTED NOT PERMITTED NOT PERMITTED
USAGE DETAILS 12	NO CONDITION CONDITIONS 10 ID 11 TYPE 11 PARAMETER 11 CONTROL TRANSFER PERMISSION INFORMATION 11	USAGE DETAILS 21 ID OF USAGE DETAILS 12 FIRST-GENERATION DUPLICATE X X X X X X X X NOT PERMITTED NOT PERMITTED NOT PERMITTED NOT PERMITTED	EQUIPMENT CONDITIONS 20 ID OF USAGE DETAILS 21 REPRODUCTION FOUR TIMES NOT PERMITTED NOT PERMITTED NOT PERMITTED NOT PERMITTED
USAGE DETAILS 13	NO CONDITION CONDITIONS 10 ID 11 TYPE 11 PARAMETER 11 CONTROL TRANSFER PERMISSION INFORMATION 11	USAGE DETAILS 22 ID OF USAGE DETAILS 13 LIMITED-TIME REPRODUCTION X X X X X X X X NOT PERMITTED NOT PERMITTED NOT PERMITTED NOT PERMITTED	USER CONDITIONS 22 ID OF USAGE DETAILS 22 DUPLICATES TWO TIMES NOT PERMITTED NOT PERMITTED NOT PERMITTED NOT PERMITTED
USAGE DETAILS 14	NO CONDITION CONDITIONS 10 ID 11 TYPE 11 PARAMETER 14 CONTROL TRANSFER PERMISSION INFORMATION 14	USAGE DETAILS 22 ID OF USAGE DETAILS 14 DUPLICATES FIVE TIMES NOT PERMITTED	NOT PERMITTED

A

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FIG. 12

UCPA

UCPB

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DOCUMENT 2450

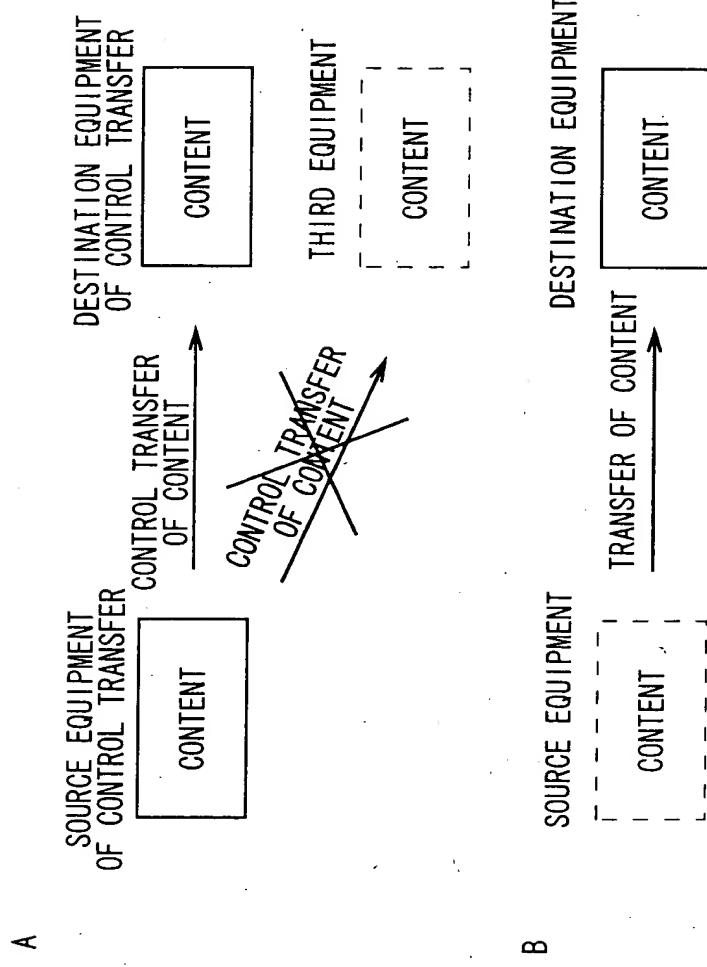


FIG. 13

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DOCUMENT TESTED

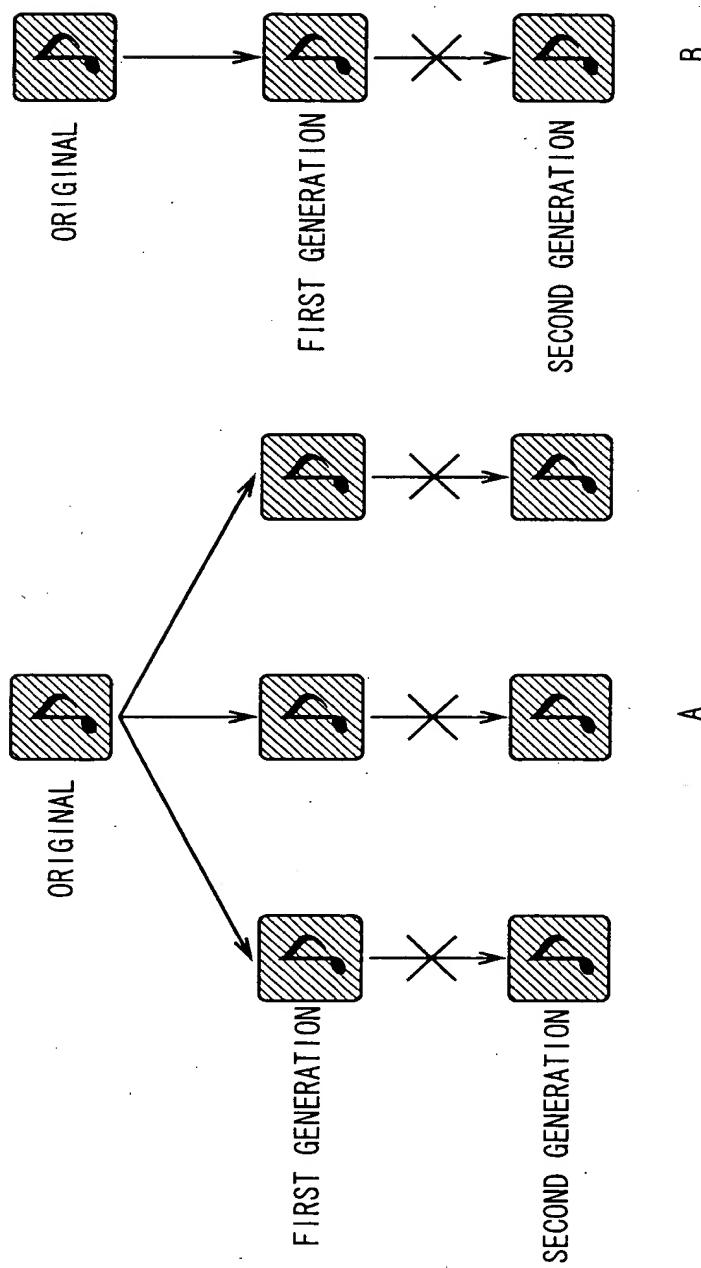


FIG. 14

A

SERVICE CODE	INDICATION
0000h	NO CONDITION
0001h TO 00FFh	WITH CONDITIONS FOR EQUIPMENT
0100h TO 01FFh	WITH CONDITIONS FOR SEX
0200h TO 02FFh	WITH CONDITIONS FOR AGE
0300h TO 7FFFh	WITH OTHER CONDITIONS
8000h TO FFFFh	WITH CONDITIONS FOR USE POINT

B

CONDITION CODE	INDICATION
00h	NO CONDITION
01h	=
02h	≠
03h	< (SMALLER)
04h	> (LARGER)
05h	≤ (EQUAL OR SAMLLER)
06h	≥ (EQUAL OF LARGER)
07h TO FFh	FREE

FIG. 15

A

USER CONDITIONS 10	SERVICE CODE	VALUE CODE	CONDITION CODE
	80××h	0000C8h	06h
EQUIPMENT CONDITIONS 10	SERVICE CODE	VALUE CODE	CONDITION CODE
	0000h	FFFFFh	00h

USAGE CONDITIONS 10 OF UCPA

B

USER CONDITIONS 20	SERVICE CODE	VALUE CODE	CONDITION CODE
	80××h	0000C8h	03h
EQUIPMENT CONDITIONS 20	SERVICE CODE	VALUE CODE	CONDITION CODE
	0000h	FFFFFh	00h

USAGE CONDITIONS 20 OF UCPB

FIG. 16

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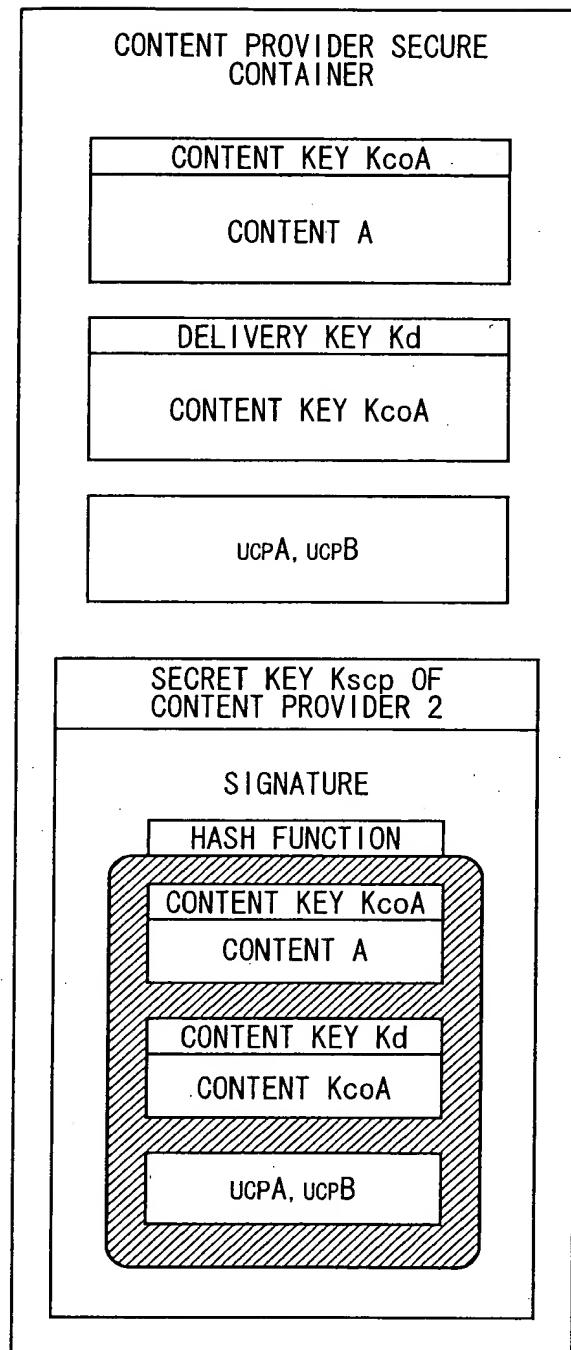


FIG. 17

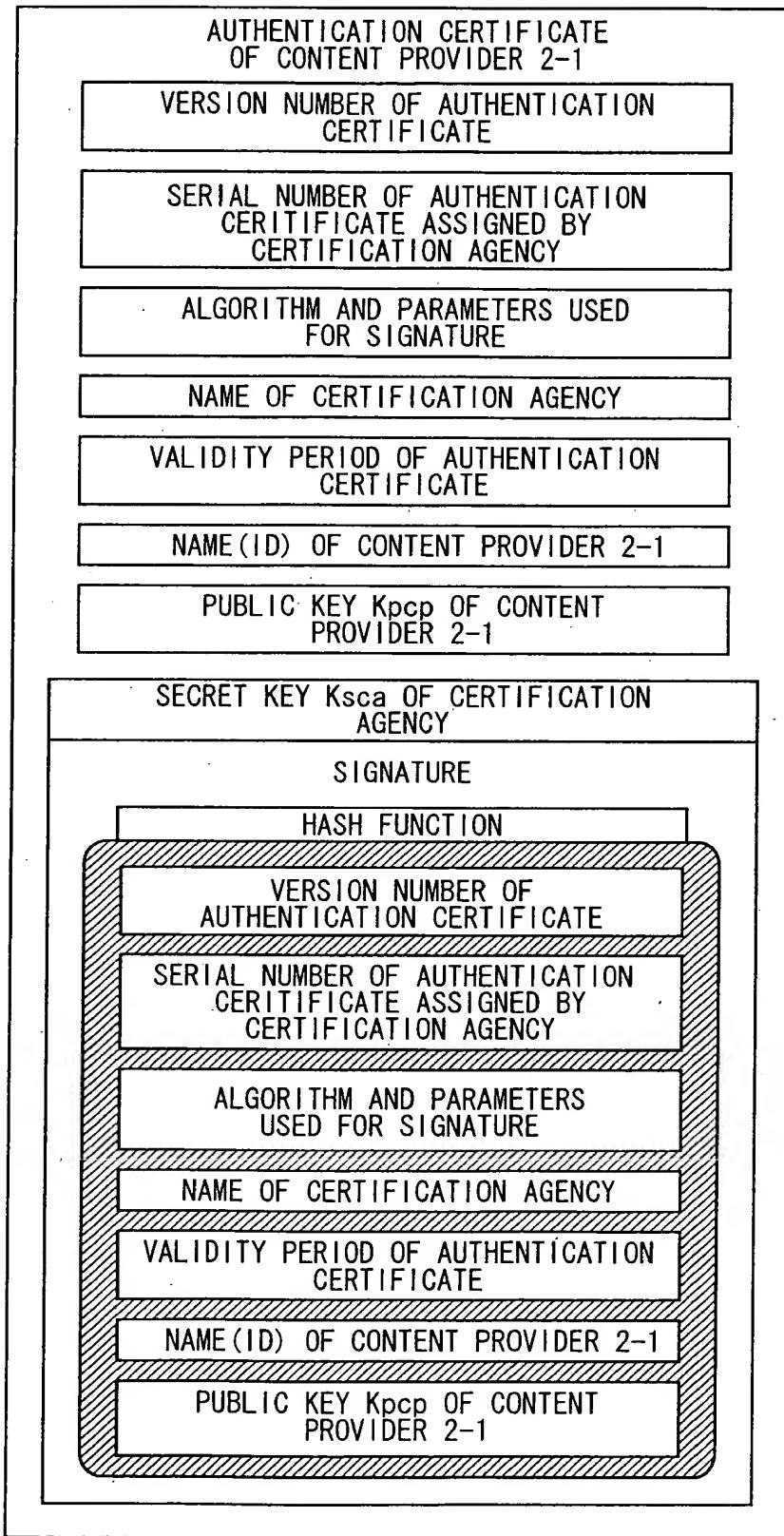
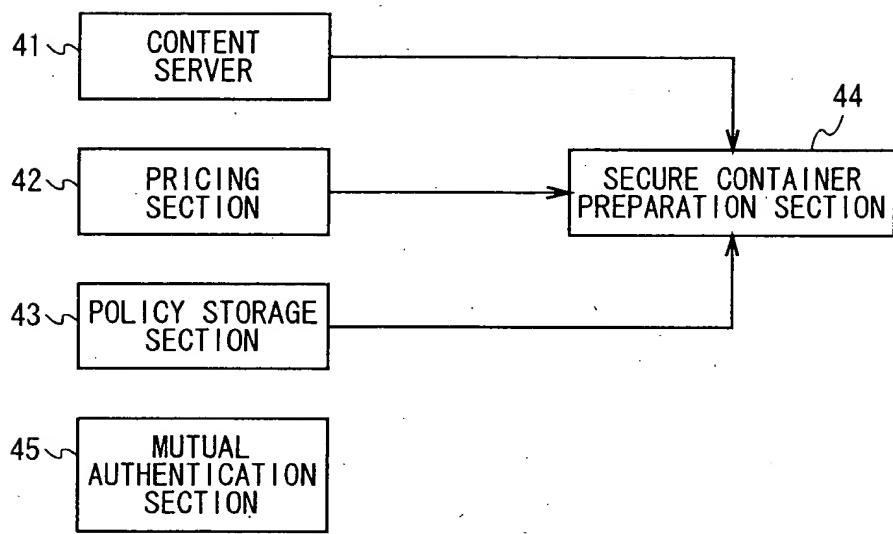


FIG. 18

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SERVICE PROVIDER 3-1

FIG. 19

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CONTENT ID	ID OF CONTENT A
CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2-1
UCP ID	ID OF UCP A
SERVICE PROVIDER ID	ID OF SERVICE PROVIDER 3-1
PT ID	ID OF PTA-1
PT VALIDITY PERIOD	VALIDITY PERIOD OF PTA-1
PRICING CONDITIONS 10	USER CONDITIONS 10 MALE EQUIPMENT CONDITIONS 10 NO CONDITIONS
PRICE 11	2000YEN
PRICE 12	600YEN
PRICE 13	100YEN
PRICE 14	300YEN

A

CONTENT ID	ID OF CONTENT A
CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2-1
UCP ID	ID OF UCP A
SERVICE PROVIDER ID	ID OF SERVICE PROVIDER 3-1
PT ID	ID OF PTA-2
PT VALIDITY PERIOD	VALIDITY PERIOD OF PTA-2
PRICING CONDITIONS 20	USER CONDITIONS 20 FEMALE EQUIPMENT CONDITIONS 20 NO CONDITIONS
PRICE 21	1000YEN
PRICE 22	300YEN
PRICE 23	50YEN
PRICE 24	150YEN

B

PTA-1

PTA-2

FIG. 20

A

USER CONDITIONS 10	SERVICE CODE	VALUE CODE	CONDITION CODE
	01××h	000000h	01h
EQUIPMENT CONDITIONS 10	SERVICE CODE	VALUE CODE	CONDITION CODE
	0000h	FFFFFh	00h

USAGE CONDITIONS 10 OF PTA-1

B

USER CONDITIONS 20	SERVICE CODE	VALUE CODE	CONDITION CODE
	01××h	000001h	01h
EQUIPMENT CONDITIONS 20	SERVICE CODE	VALUE CODE	CONDITION CODE
	0000h	FFFFFh	00h

USAGE CONDITIONS 20 OF PTA-2

FIG. 21

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□□□□□□□□□□□□□□□□

CONTENT ID	ID OF CONTENT A	CONTENT ID	ID OF CONTENT A
CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2-1	CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2-1
UCP ID	ID OF UCP B	UCP ID	ID OF UCPB
SERVICE PROVIDER ID	ID OF SERVICE PROVIDER 3-1	SERVICE PROVIDER ID	ID OF SERVICE PROVIDER 3-1
PT ID	ID OF PTB-1	PT ID	ID OF PTB-2
PT VALIDITY PERIOD	VALIDITY PERIOD OF PTB-1	PT VALIDITY PERIOD	VALIDITY PERIOD OF PTB-2
PRICING CONDITIONS 30	USER CONDITIONS 30 NO EQUIPMENT CONDITIONS 30	PRICING CONDITIONS 40	USER CONDITIONS 40 NO EQUIPMENT CONDITIONS 40
PRICE 31	100YEN	PRICE 41	50YEN
PRICE 32	300YEN	PRICE 42	150YEN

ptB-1

A

ptB-2

B

FIG. 22

A

USER CONDITIONS 30	SERVICE CODE	VALUE CODE	CONDITION CODE
	0000h	FFFFFh	00h
EQUIPMENT CONDITIONS 30	SERVICE CODE	VALUE CODE	CONDITION CODE
	00××h	000064h	03h

USAGE CONDITIONS 30 OF PTB-1

B

USER CONDITIONS 40	SERVICE CODE	VALUE CODE	CONDITION CODE
	0000h	FFFFFh	00h
EQUIPMENT CONDITIONS 40	SERVICE CODE	VALUE CODE	CONDITION CODE
	00××h	000064h	06h

USAGE CONDITIONS 40 OF PTB-2

FIG. 23

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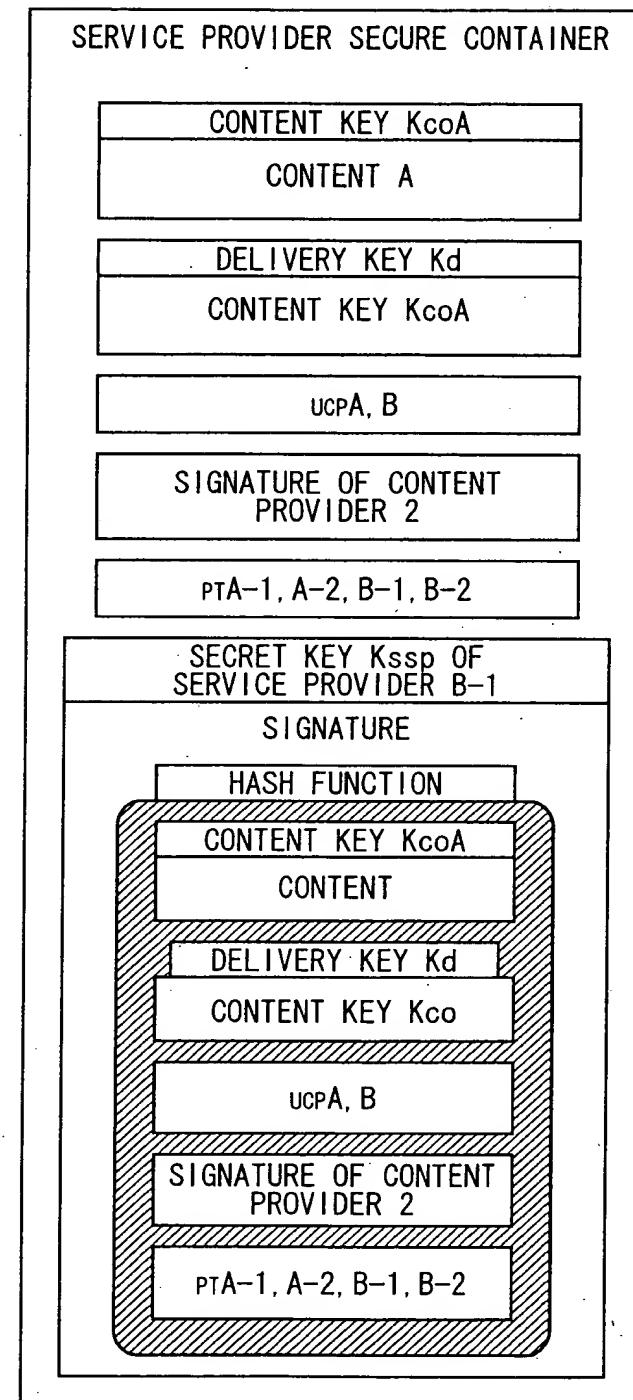


FIG. 24

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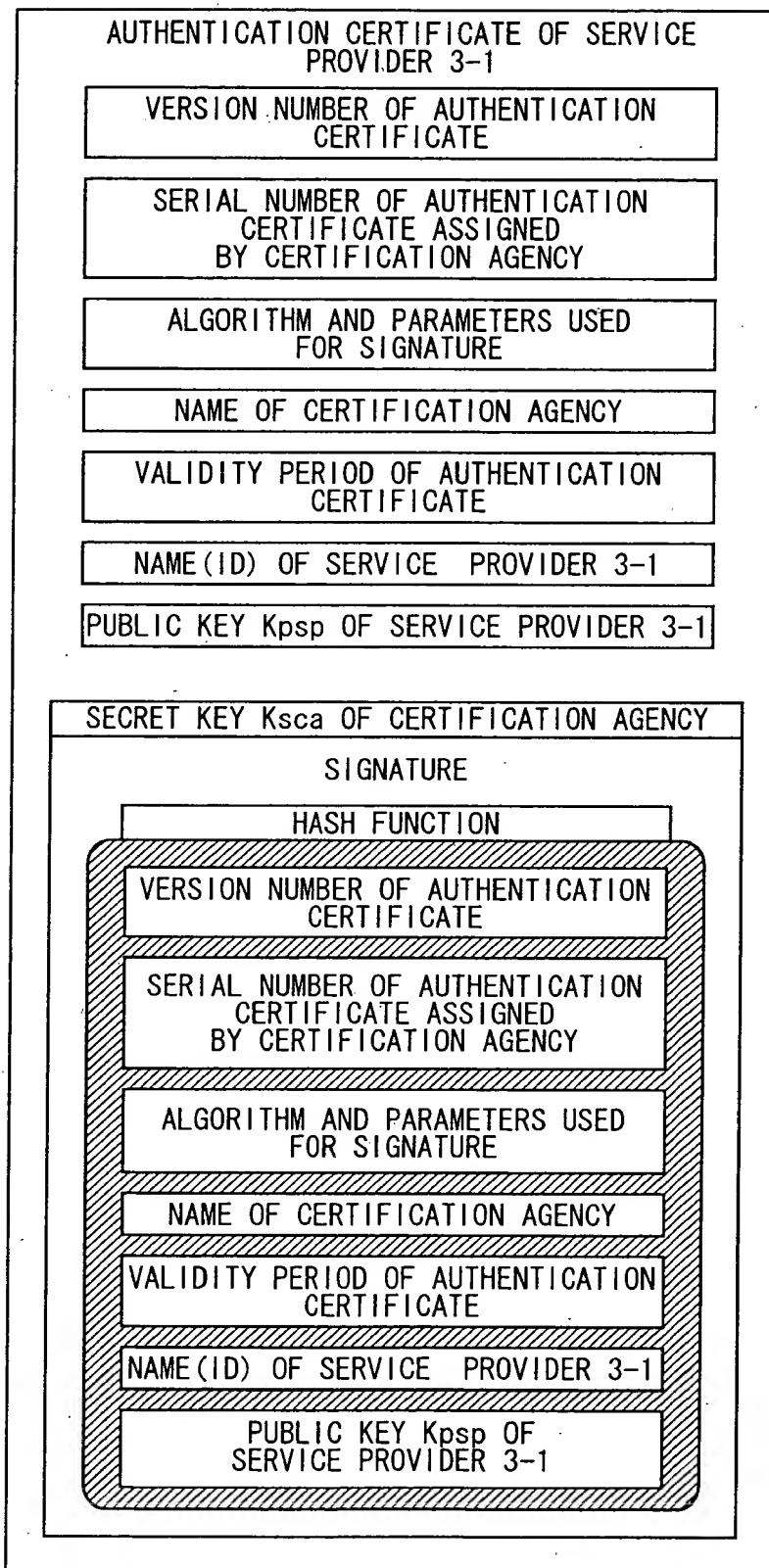


FIG. 25

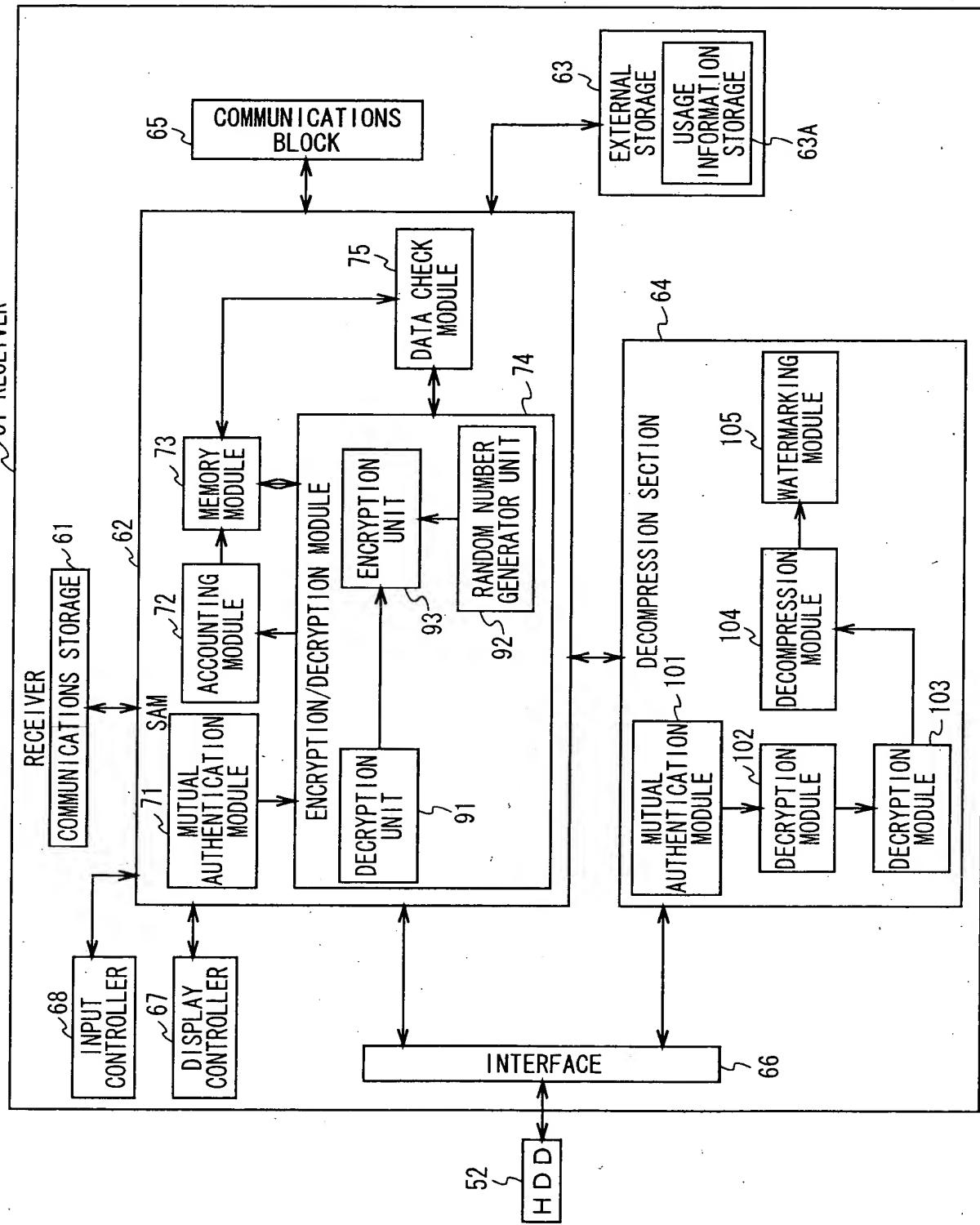


FIG. 26

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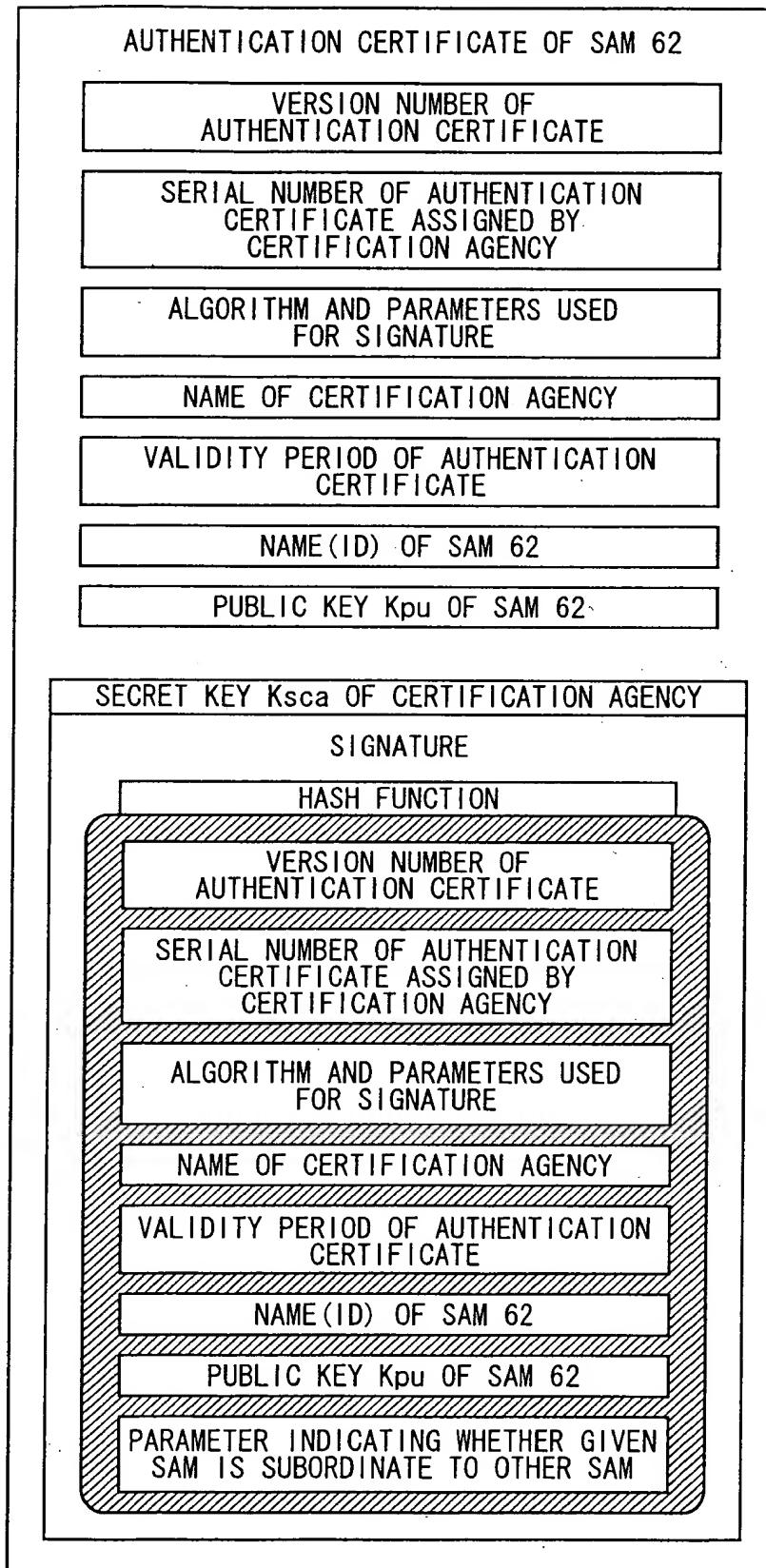


FIG. 27

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CONTENT ID	ID OF CONTENT A	
CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2-1	
UCP ID	ID OF UCPA	
UCP VALIDITY PERIOD	VALIDITY PERIOD OF UCPA	
SERVICE PROVIDER ID	ID OF SERVICE PROVIDER 3-1	
PT ID	ID OF PTA-1	
PT VALIDITY PERIOD	VALIDITY PERIOD OF PTA-1	
UCS ID	ID OF ucsA	
SAM ID	ID OF SAM62	
USER ID	ID OF USER F	
USAGE DETAILS	ID	ID OF USAGE DETAILS 11
	TYPE	PURCHASE AND REPRODUCE
	PARAMETER	xxx
	CONTROL TRANSFER STATUS	SOURCE: ID OF SAM62, DESTINATION: ID OF SAM62
USAGE HISTORY	xxx	

ucsA

FIG. 28

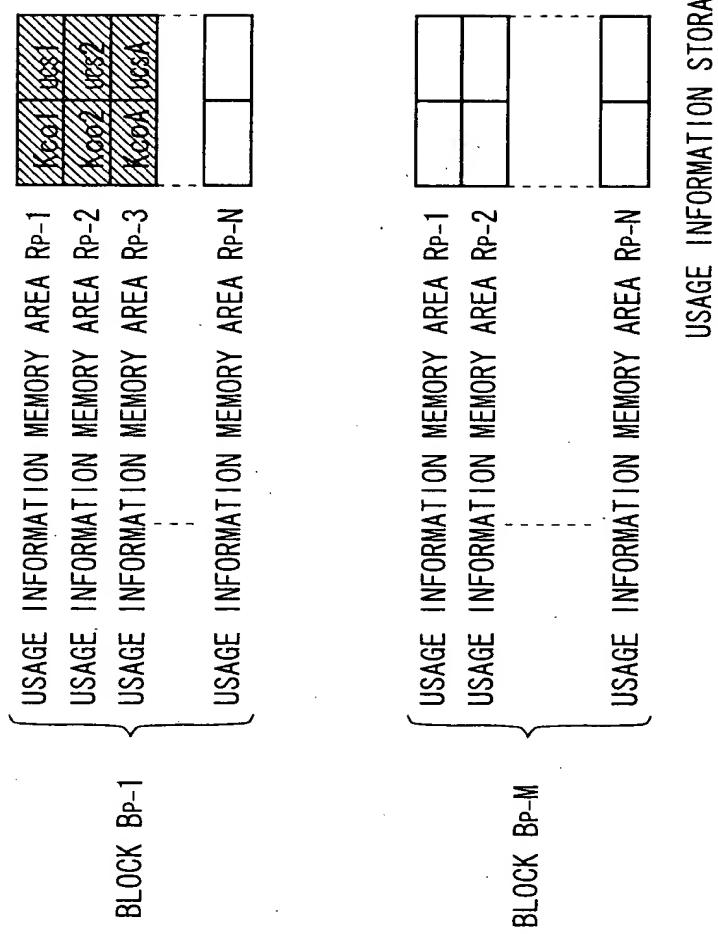


FIG. 29

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CONTENT ID	ID OF CONTENT A	
CONTENT PROVIDER ID	ID OF CONTENT PROVIDER 2-1	
UCP ID	ID OF UCPA	
UCP VALIDITY PERIOD	VALIDITY PERIOD OF UCPA	
SERVICE PROVIDER ID	ID OF SERVICE PROVIDER 3-1	
PT ID	ID OF PTA-1	
PT VALIDITY PERIOD	VALIDITY PERIOD OF PTA-1	
UCS ID	ID OF UCSA	
SAM ID	ID OF SAM62	
USER ID	ID OF USER F	
USAGE DETAILS	ID	ID OF USAGE DETAILS 11
	TYPE	PURCHASE AND REPRODUCE
	PARAMETER	X X X
	CONTROL TRANSFER STATUS	SOURCE: ID OF SAM62, DESTINATION: ID OF SAM62
ACCOUNTING HISTORY	X X X	

ACCOUNTING INFORMATION A

FIG. 30

PUBLIC KEY Kpu OF SAM62		
SECRET KEY Ksu OF SAM62		
PUBLIC KEY Kpsc OF THE EMD SERVICE CENTER 1		
PUBLIC KEY Kpca OF THE CERTIFICATION AGENCY		
SAVE KEY Ksave		
THREE MONTHS' DELIVERY KEYS Kd		
.....		
AUTHENTICATION CERTIFICATE OF SAM62		
REFERENCE INFORMATION 51		
ACCOUNTING INFORMATION		
.....		
VERIFICATION VALUES Hp-1	VERIFICATION VALUES Hp-2
.....	VERIFICATION VALUES Hp-M

FIG. 31

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SAM ID	ID OF SAM62
EQUIPMENT NUMBER	EQUIPMENT NUMBER (1000) OF RECEIVERS 51
SETTLEMENT ID	SETTLEMENT ID OF USER F
CHARGE LIMIT	FORMAL REGISTRATION
NAME	NAME OF USER F
ADDRESS	ADDRESS OF USER F
PHONE NUMBER	PHONE NUMBER OF USER F
SETTLEMENT INSTITUTION INFORMATION	SETTLEMENT INSTITUTION INFORMATION OF USER F
DATE OF BIRTH	DATE OF BIRTH OF USER F
AGE	AGE OF USER F (21 YEARS)
SEX	SEX OF USER F
USER ID	USER ID OF USER F
PASSWORD	PASSWORD OF USER F
NAME	
ADDRESS	
PHONE NUMBER	
DATA OF BIRTH	
SEX	
USER ID	
PASSWORD	
ACCOUNT-SETTLING USER INFORMATION	
SUBORDINATE USER INFORMATION	
USE POINT INFORMATION	USE POINT INFORMATION OF RECEIVERS 51

.....

REFERENCE INFORMATION 51

FIG. 32

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USER	PROVIDER	USE POINT
ACCOUNT-SETTLING USER	CONTENT PROVIDER2-1	222POINTS
	CONTENT PROVIDER2-2	123POINTS
	SERVICE PROVIDER3-1	345POINTS
	SERVICE PROVIDER3-2	0POINT

USE POINT INFORMATION OF REFERENCE 51

FIG. 33

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LIST SECTION

SAM ID	USER ID	PURCHASED	ACCOUNTING	EQUIPMENT BILLED	MASTER EQUIPMENT	STATUS FLAG	SIGNATURE TO CONDITIONS	SIGNATURE TO REGISTRATION LIST
ID OF SAM62	USER ID OF USER F	YES	YES	ID OF SAM62	NONE	NO RESTRICTION	X X X X	X X X X
ID OF SAM212	USER ID OF USER A	YES	YES	ID OF SAM212	NONE	NO RESTRICTION	X X X X	X X X X

REGISTRATION CONDITIONS
OF RECEIVER 51
REGISTRATION CONDITIONS
OF RECEIVER 201

SAM ID	ID OF SAM62
VALIDITY PERIOD	X X X X
VERSION NUMBER	X X X X
NUMBER OF EQUIPMENT CONNECTED	2

FIG. 34

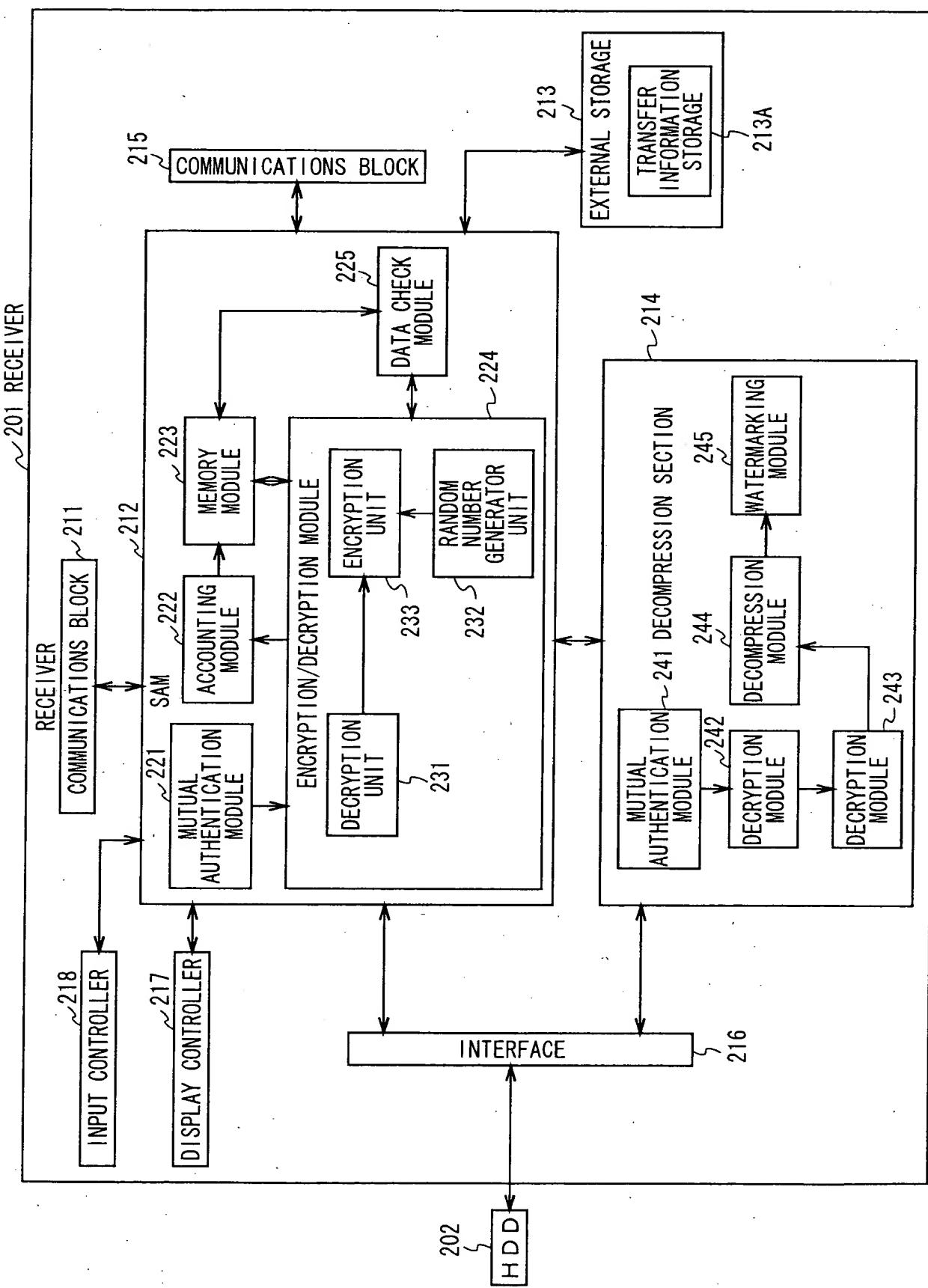


FIG. 35

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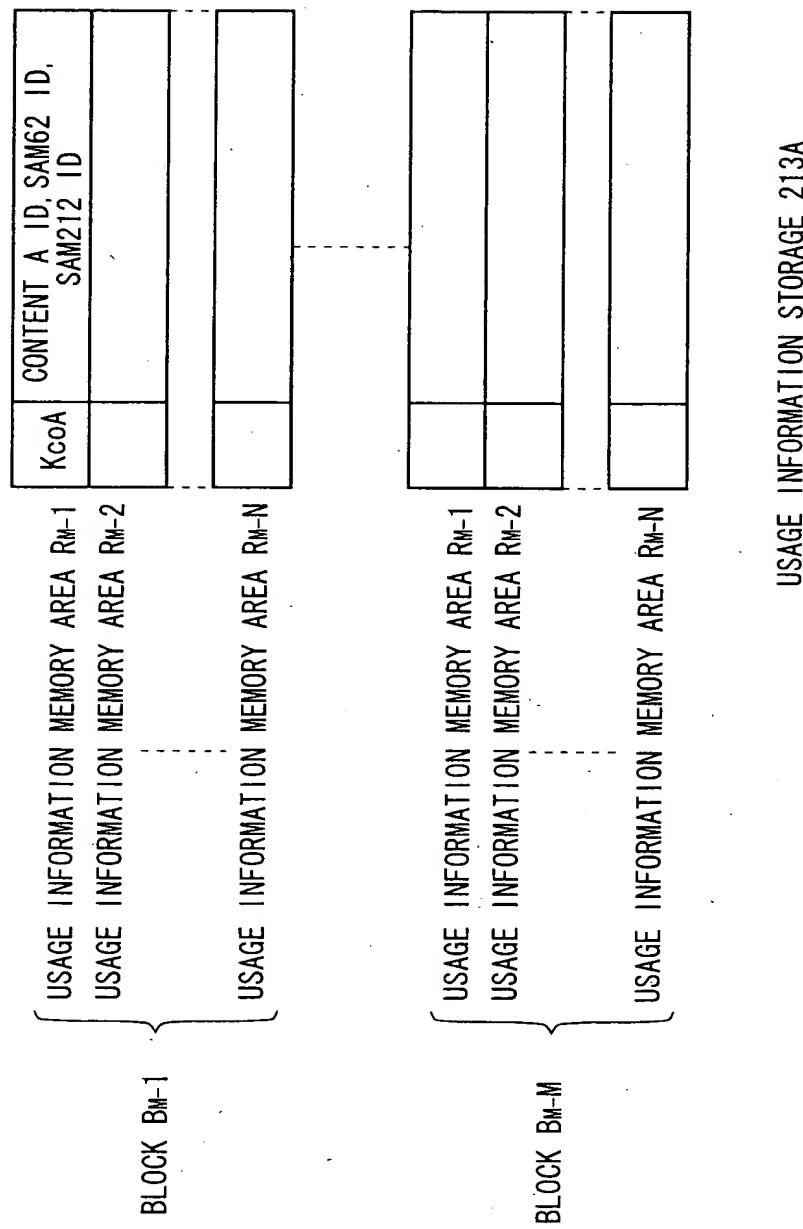


FIG. 36

PUBLIC KEY Kpu OF SAM212		
SECRET KEY Ksu OF SAM212		
PUBLIC KEY Kpesc OF THE EMD SERVICE CENTER 1		
PUBLIC KEY Kpca OF THE CERTIFICATION AGENCY		
SAVE KEY Ksave		
THREE MONTHS' DELIVERY KEYS Kd		
...		
AUTHENTICATION CERTIFICATE OF SAM212		
REFERENCE INFORMATION 201		
...		
VERIFICATION VALUES Hp-1	VERIFICATION VALUES Hp-2
.....	VERIFICATION VALUES Hp-M	

FIG. 37

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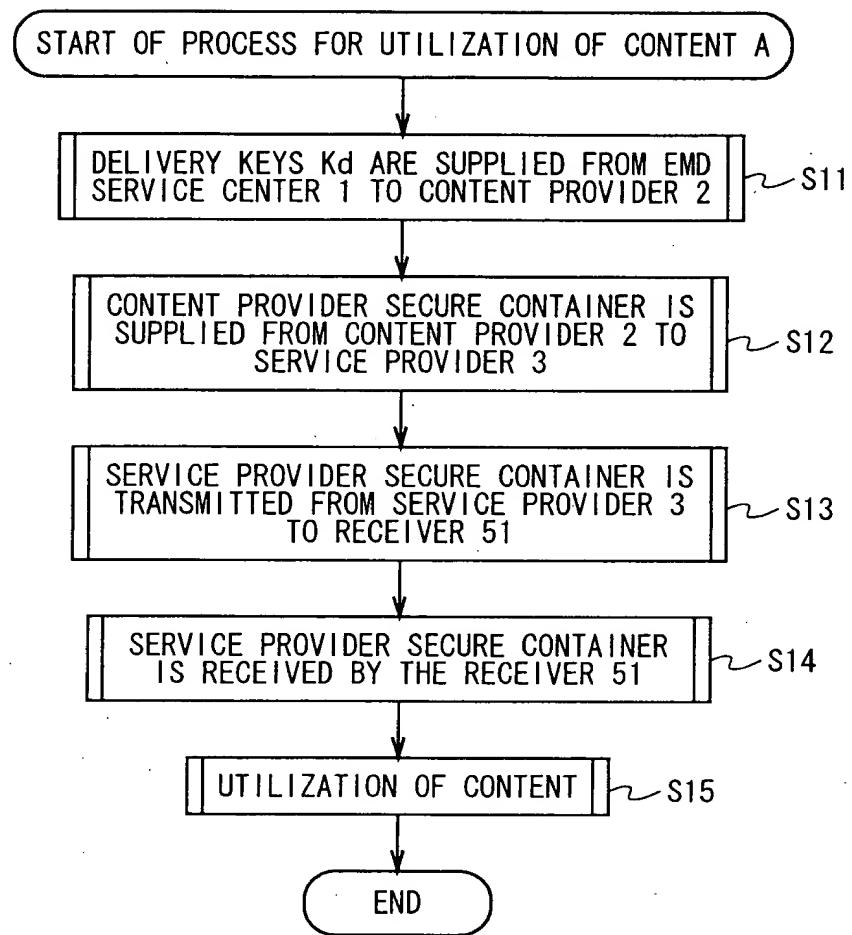


FIG. 38

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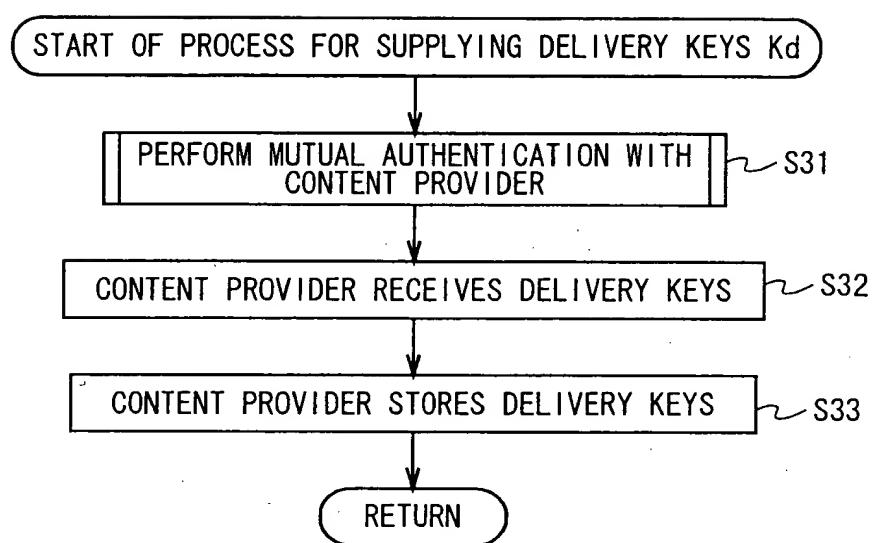


FIG. 39

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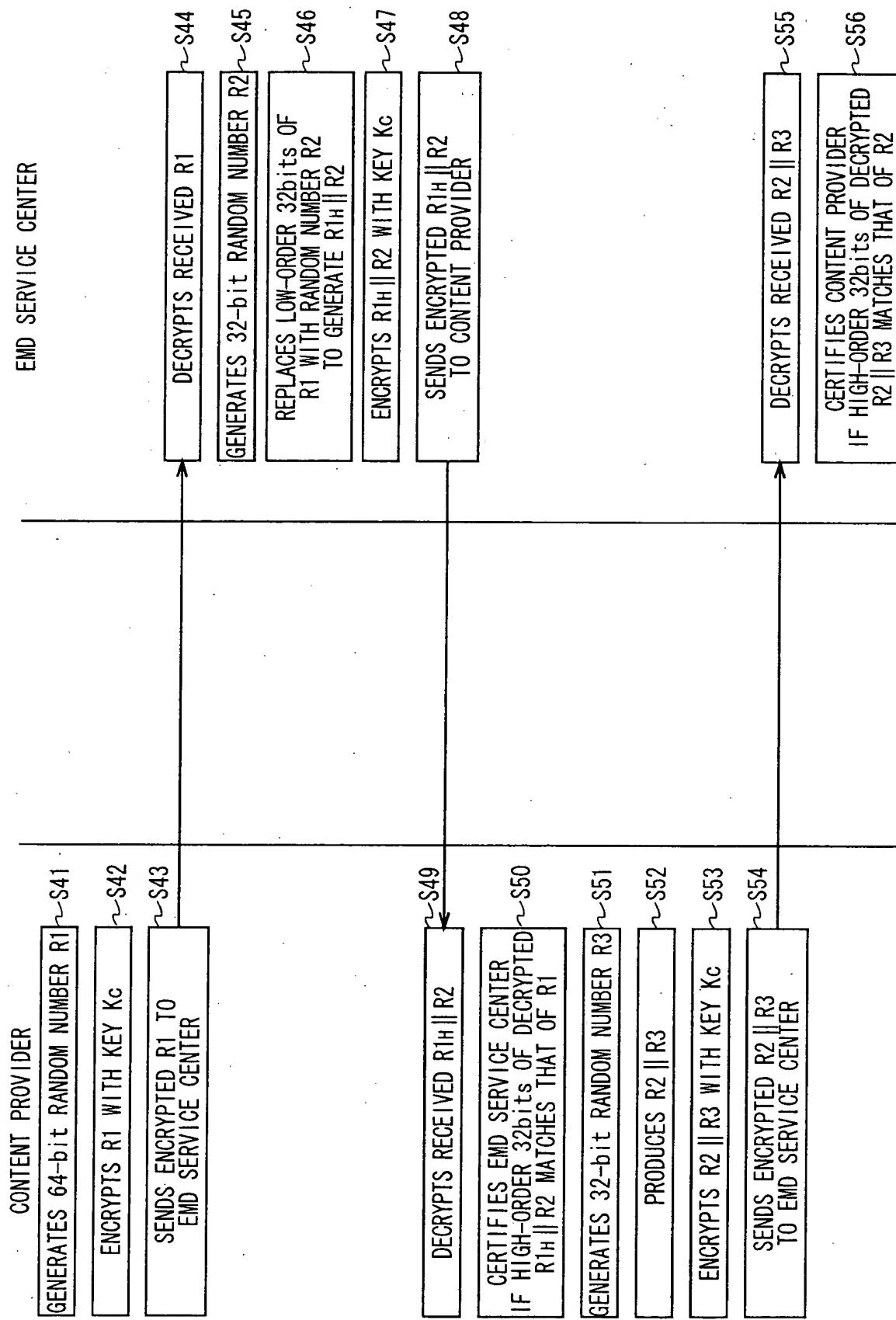


FIG. 40

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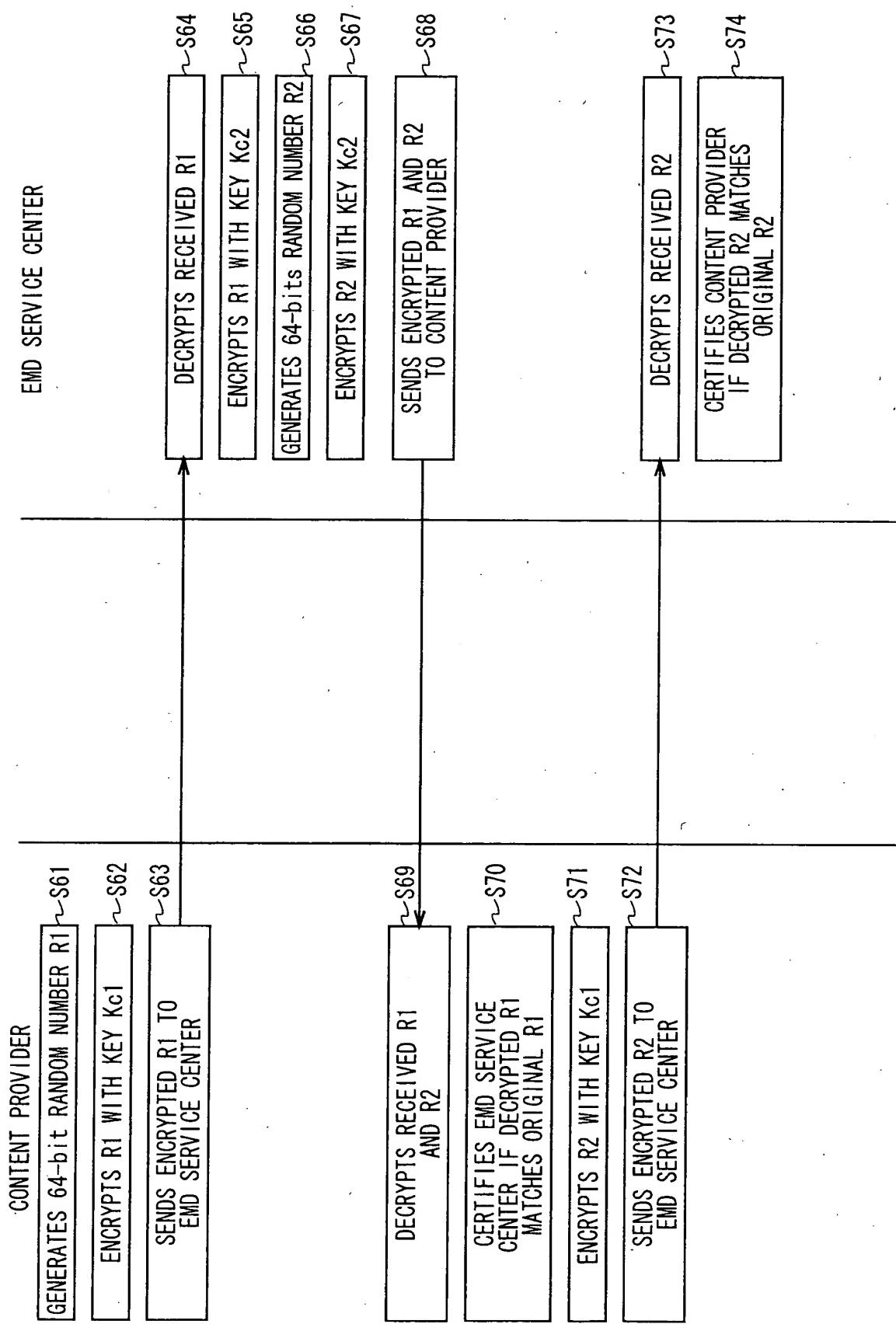
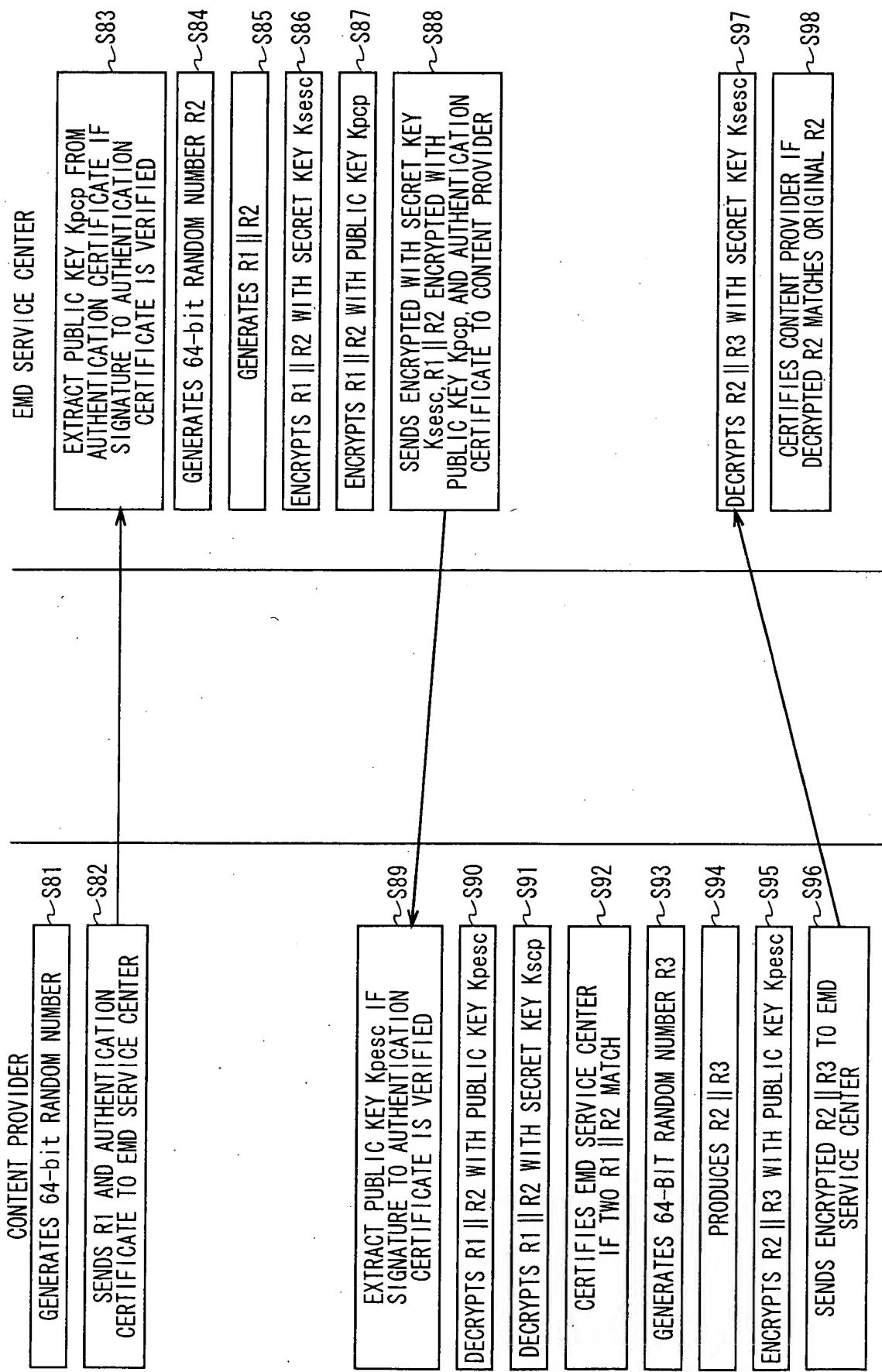


FIG. 41

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DRAFT - FTT&C



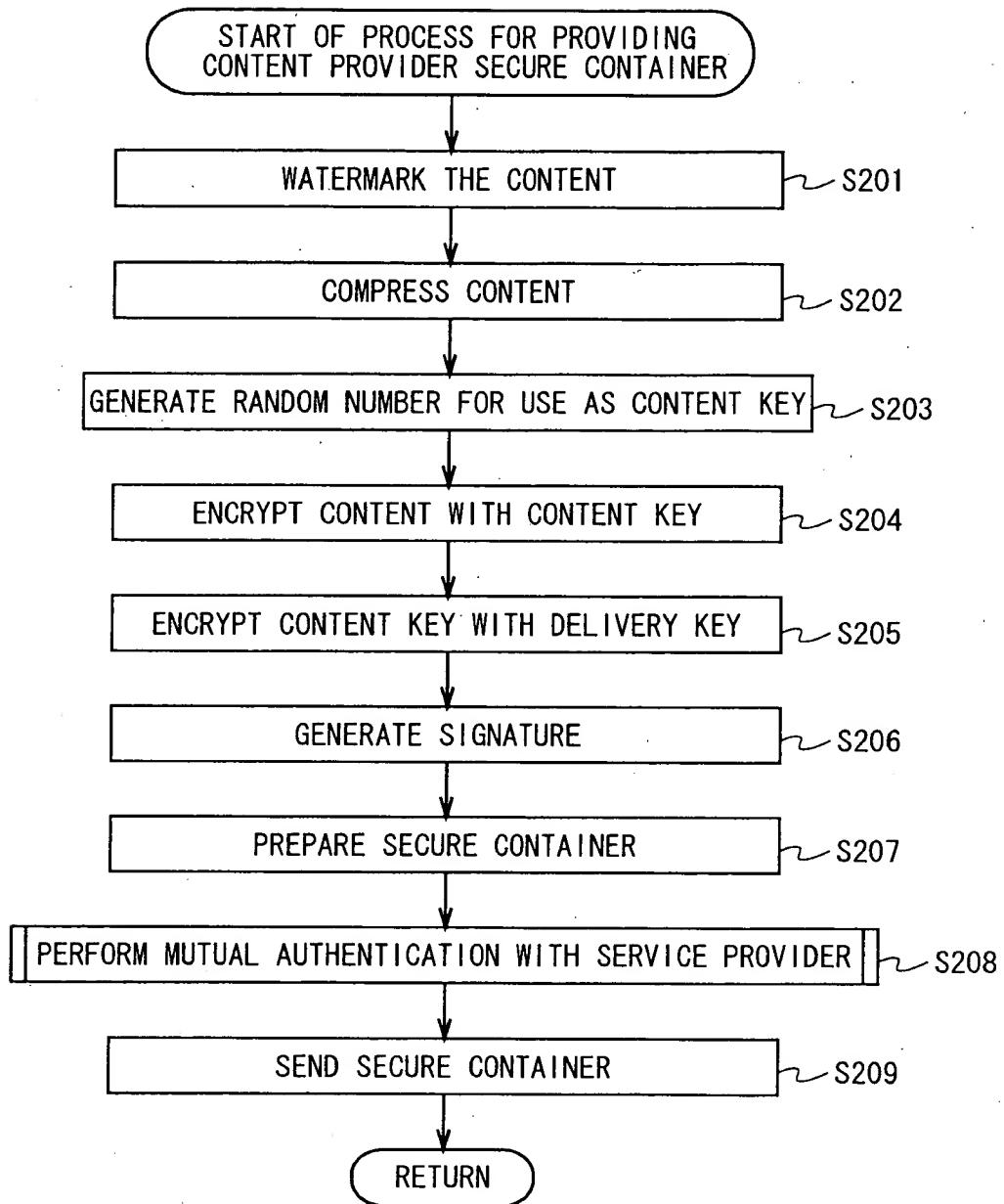


FIG. 43

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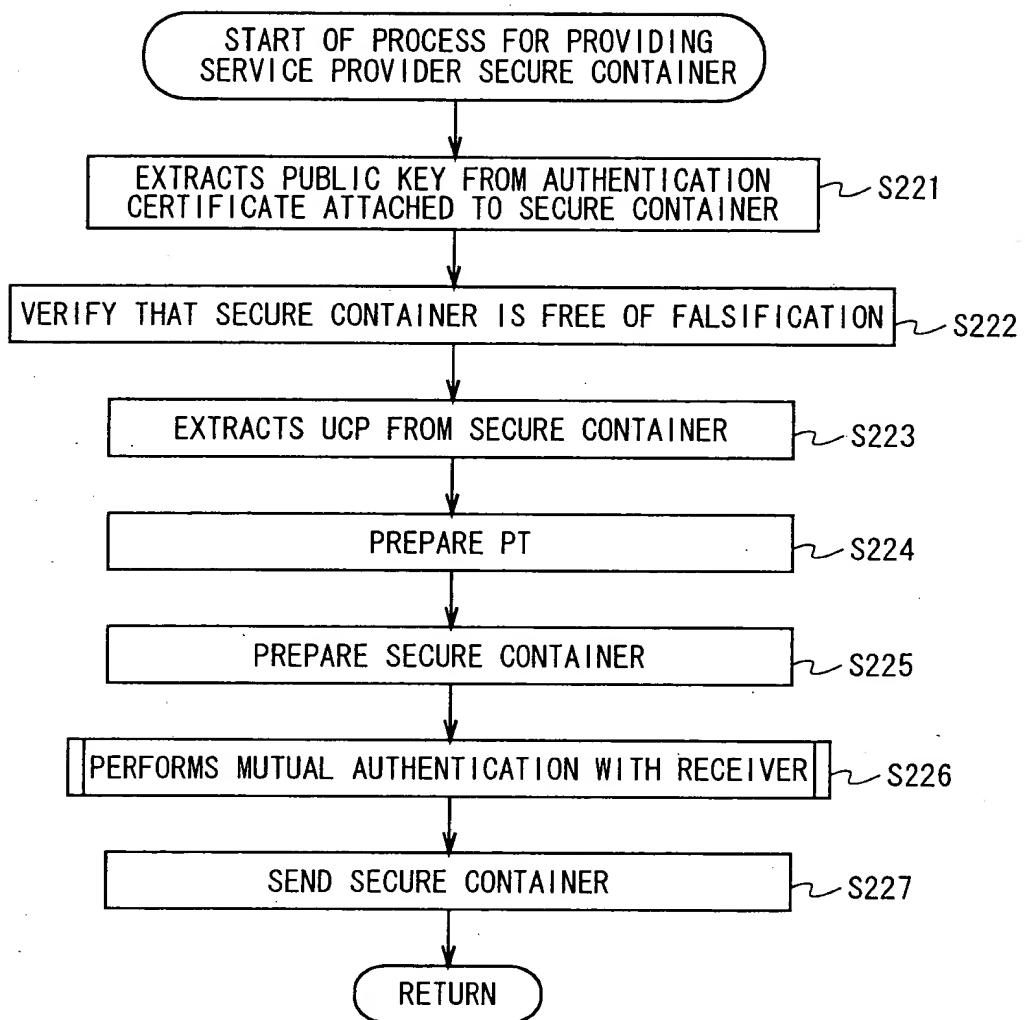


FIG. 44

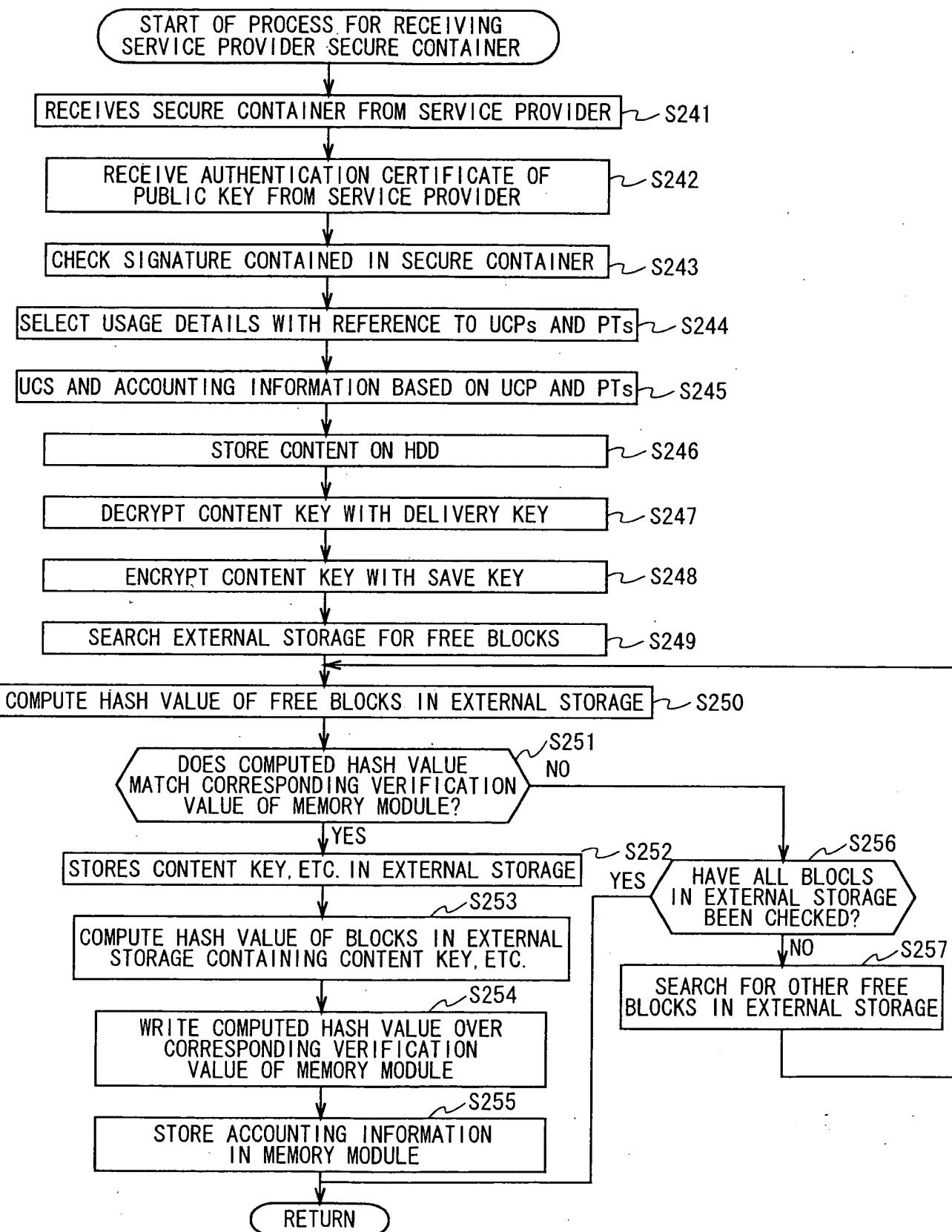


FIG. 45

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00000000000000000000000000000000

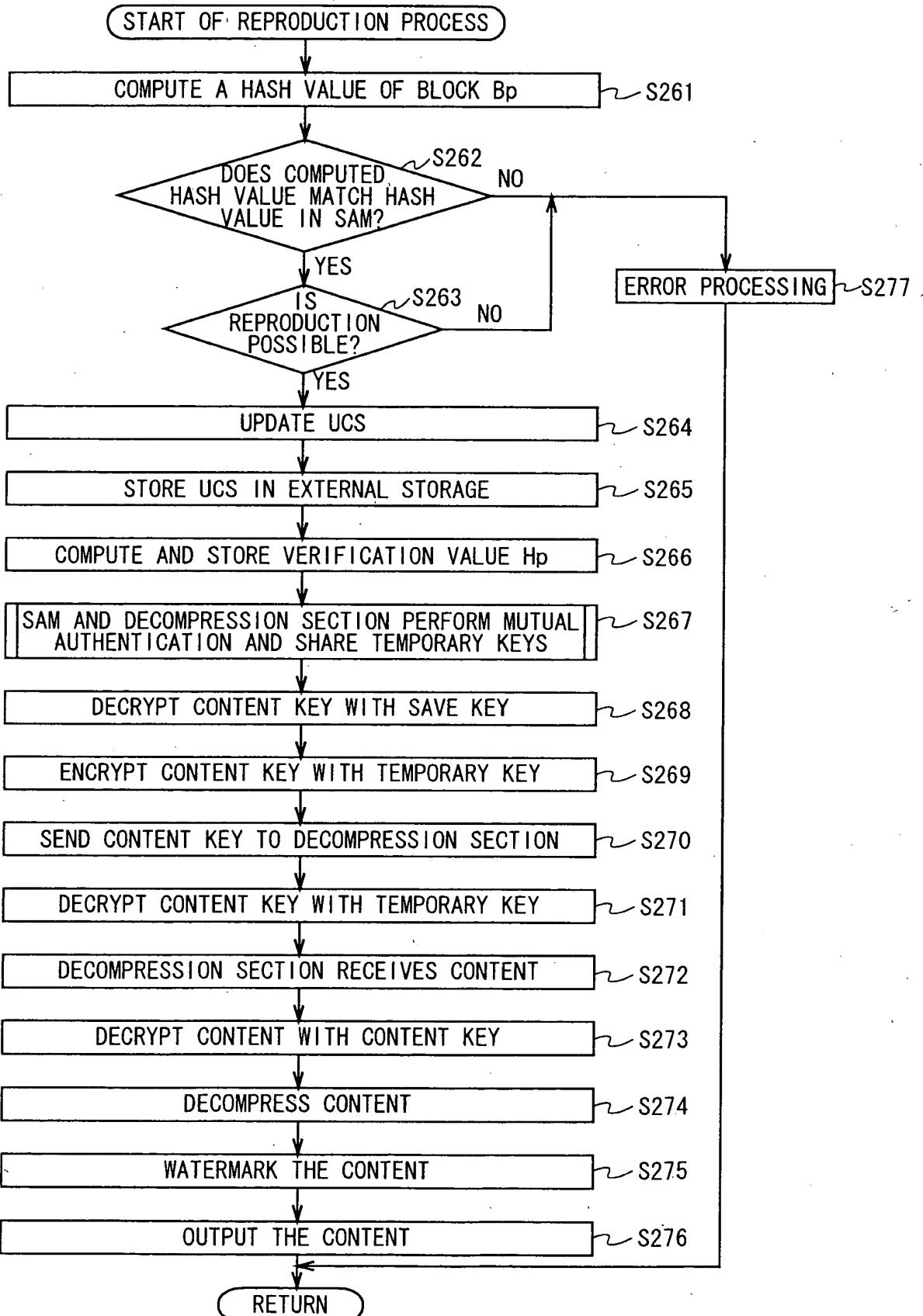


FIG. 46
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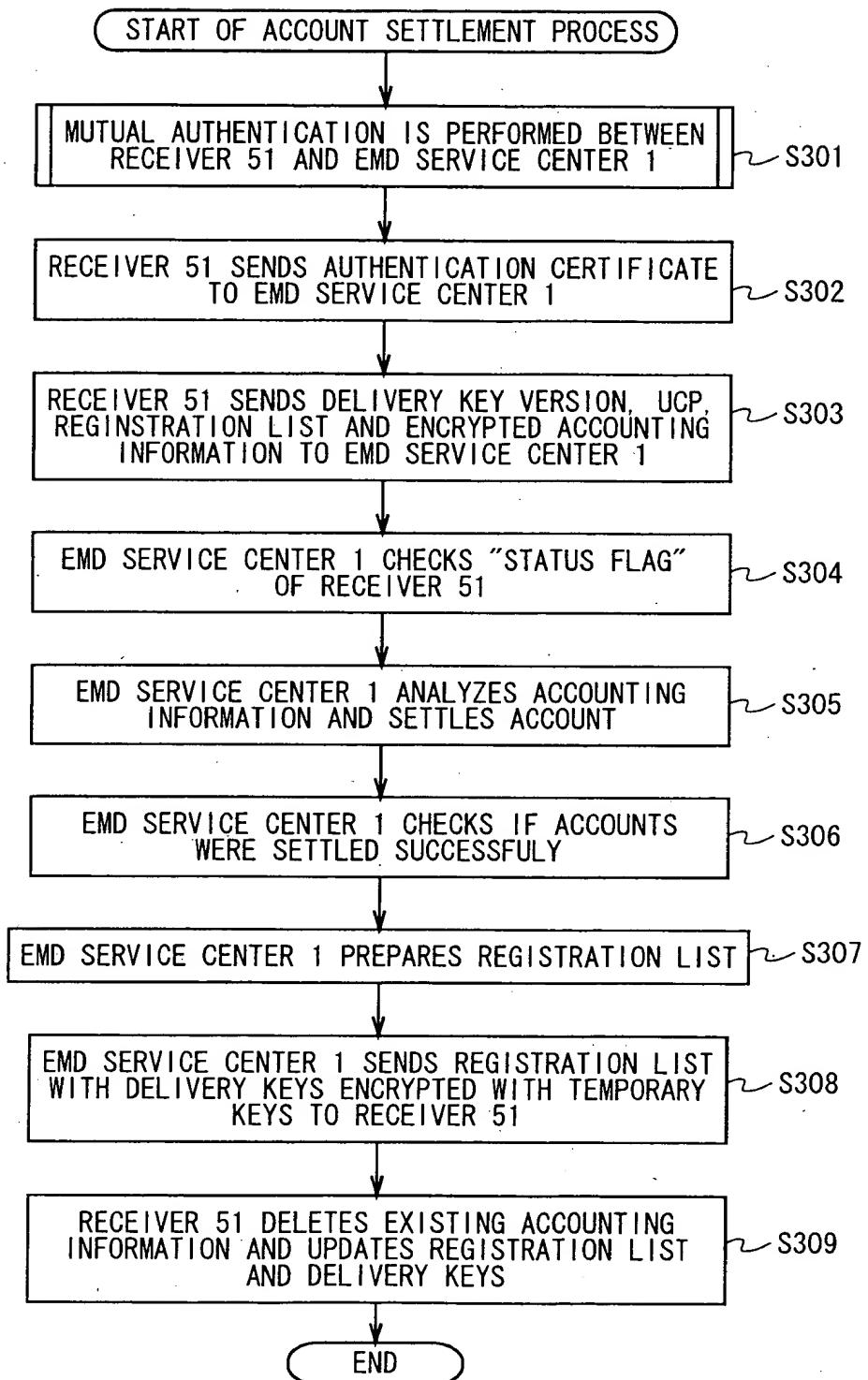


FIG. 47

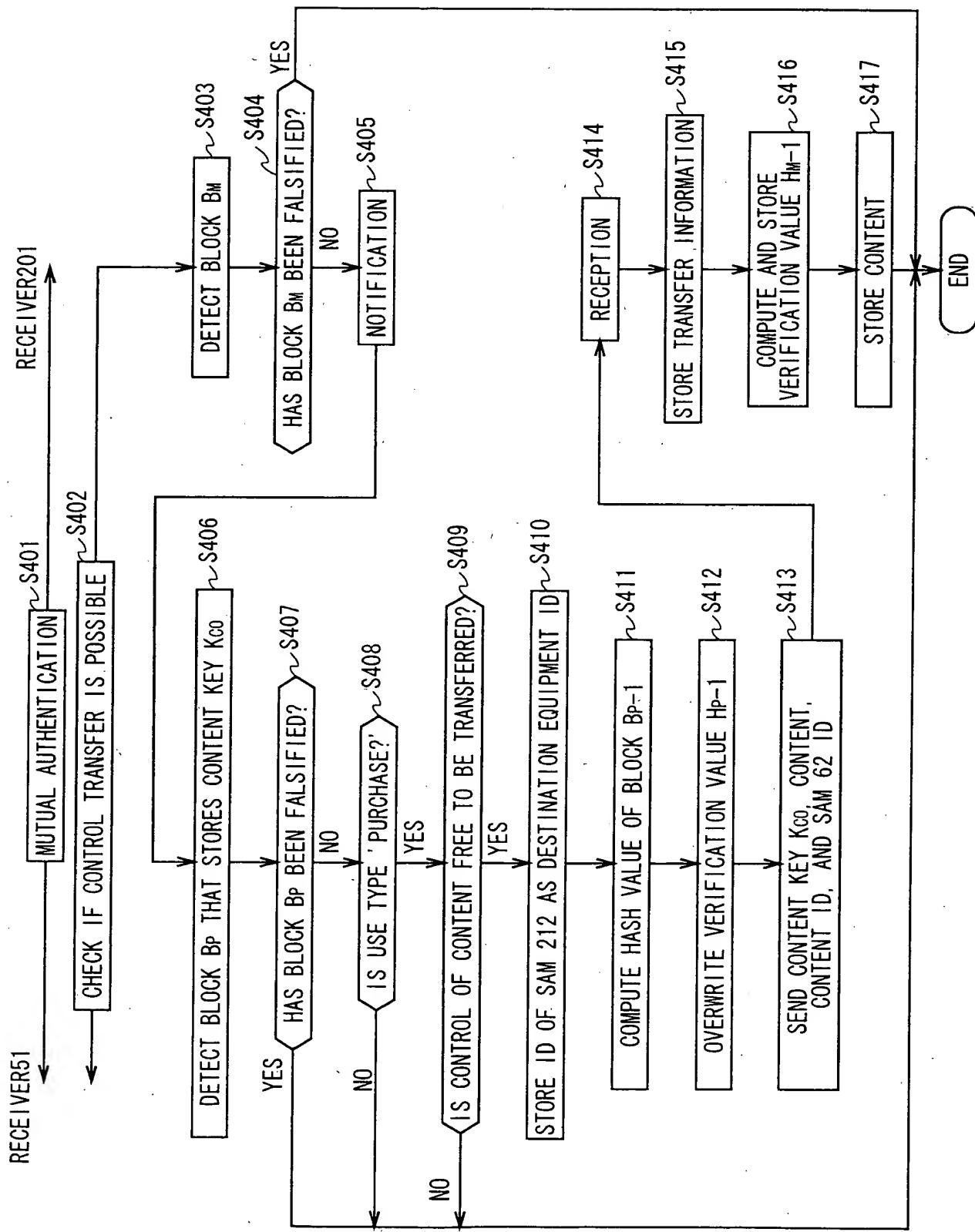


FIG. 48

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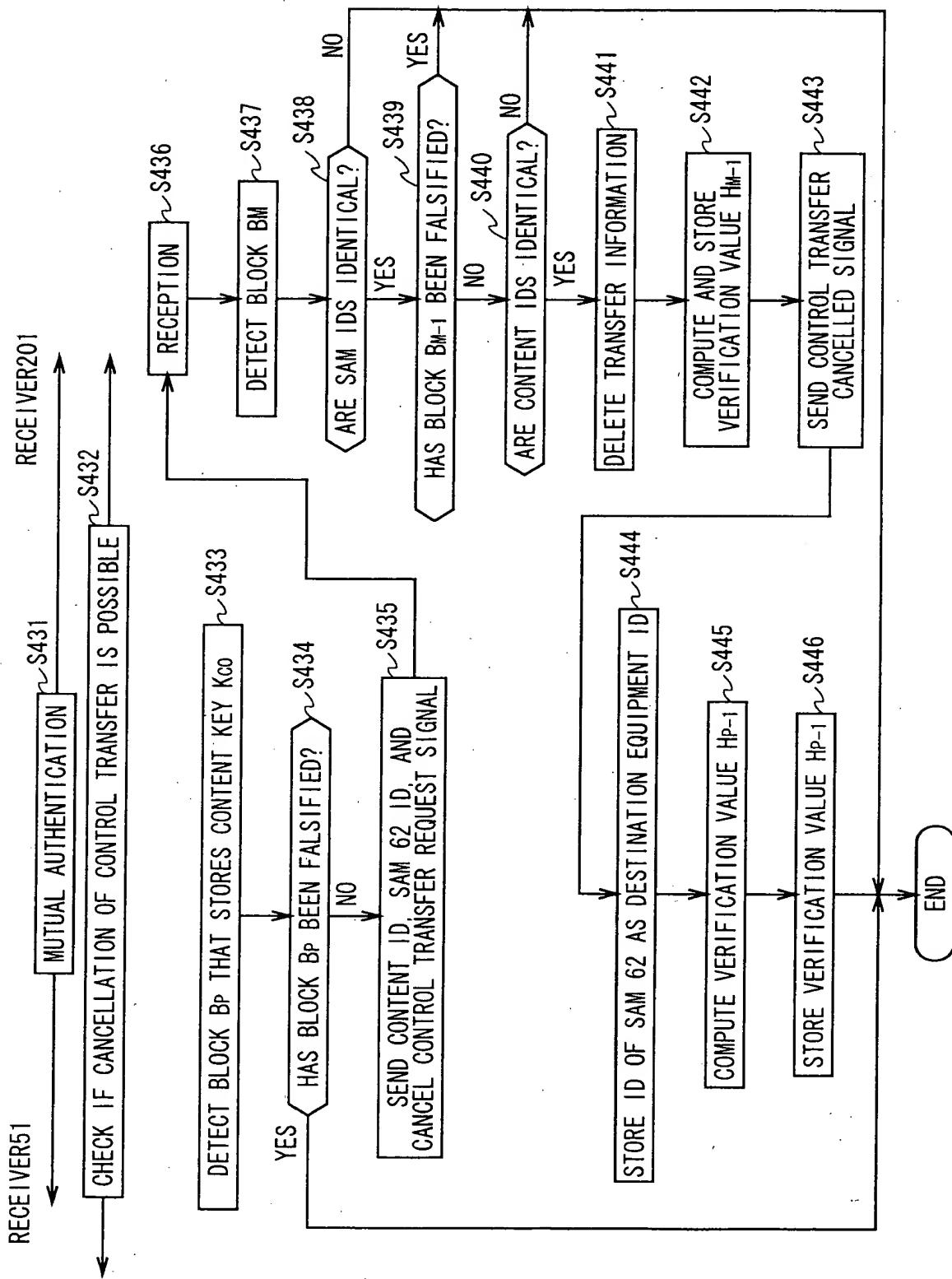


FIG. 49

Explanation of Reference Numerals

1 ... EMD service center, 2 ... content provider, 3 ... service provider,
5 ... user home network, 11 ... service provider management section,
12 ... content provider management section, 13 ... copyright management
section, 14 ... key server, 15 ... log data management section, 16 ...
profit-sharing section, 17 ... mutual authentication section, 18 ...
user management section, 19 ... billing section, 20 ... cashier section,
21 ... audit section, 31 ... content server, 32 ... watermarking section,
33 ... compression section, 34 ... encryption section, 35 ... random
number generator section, 36 ... encryption section, 37 ... policy
storage section, 38 ... secure container preparation section, 39 ...
mutual authentication section, 41 ... content server, 42 ... pricing
section, 43 ... policy storage section, 44 ... secure container
preparation section, 45 ... mutual authentication section, 51 ...
receiver, 52 ... HDD, 61 ... communication block, 62 ... SAM, 63 ...
external storage, 64 ... decompression section, 65 ... communication
block, 66 ... interface, 67 ... display controller, 68 ... input
controller, 71 ... mutual authentication module, 72 ... accounting
module, 73 ... memory module, 74 ... encryption/decryption module, 75 ...
data check module, 91 ... decryption unit, 92 ... random number generator
unit, 93 ... encryption unit, 101 ... mutual authentication module,
102 ... decryption module, 103 ... decryption module, 104 ...
decompression module, 105 ... watermarking module, 201 ... receiver,
202 ... HDD,

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211 ... communication block, 212 ... SAM, 213 ... external storage,
214 ... decompression section, 215 ... communication block, 216 ...
interface, 217 ... display controller, 218 ... input controller, 221 ...
mutual authentication module, 222 ... accounting module, 223 ... memory
module, 224 ... encryption/decryption module, 225 ... data check module,
231 ... decryption unit, 232 ... random number generator unit, 233 ...
encryption unit, 241 ... mutual authentication module, 242 ...
decryption module, 243 ... decryption module, 244 ... decompression
module, 245 ... watermarking module.

DO NOT DESTROY